

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2017 Levee Inspection Results

Reclamation District No. 1600 Mull

| | Spring (March - May) | Summer ** (June - August) | Fall (September - November) | Winter ** (December - February) |
|----------------------------------|-------------------------|------------------------------|--------------------------------|------------------------------------|
| † Overall LMA Rating (Fall Only) | | | | |

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

† **SPRING INSPECTIONS:** Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2017 Levee Inspection Results

Reclamation District No. 1600 Mull

| Waterway | | | Bank | Unit Miles |
|--|-------------------------|---------------------------|--------------------------------|---------------------------------|
| Unit No. 01 Sacramento River | | | Right | 10.46 |
| | Spring (March - May) | Summer (June - August) | (September - November) Fall | Winter (December - February) |
| Unit Maintenance Rating (Fall Only) | | | | |
| Date of Inspection | 4/11/2017 - 4/11/2017 | | | |
| DWR Inspector | Zach Jojola | | | |
| Accompanied By | | | | |

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|--|----------------------------------|--------------|------------------------|------------|-----|
| LM Start | | Rating ** | A | Issue No. | 32 |
| LM End | | Issue Type + | Ma | Location * | N/A |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Operations & Maintenance Manuals | | | | |
| DWR ID | DWR_RD1600_01_s _ 2013_32 | | | | |
| Comment Code | | | | | |
| Inspector Comment | | | | | |
| RD 1600 has copies of the O&M manuals. | | | | | |

No Photos

| | | | | | |
|---|--------------------------------|--------------|------------------------|------------|-----|
| LM Start | | Rating ** | A | Issue No. | 33 |
| LM End | | Issue Type + | Ma | Location * | N/A |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Emergency Supplies & Equipment | | | | |
| DWR ID | DWR_RD1600_01_s _ 2013_33 | | | | |
| Comment Code | | | | | |
| Inspector Comment | | | | | |
| RD 1600 maintains a stockpile of flood response material. | | | | | |

No Photos

| | | | | | |
|--|-------------------------------|--------------|------------------------|------------|-----|
| LM Start | | Rating ** | A | Issue No. | 34 |
| LM End | | Issue Type + | Ma | Location * | N/A |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Flood Preparedness & Training | | | | |
| DWR ID | DWR_RD1600_01_s _ 2013_34 | | | | |
| Comment Code | | | | | |
| Inspector Comment | | | | | |
| RD 1600 has a written flood response plan and flood response training. | | | | | |

No Photos

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

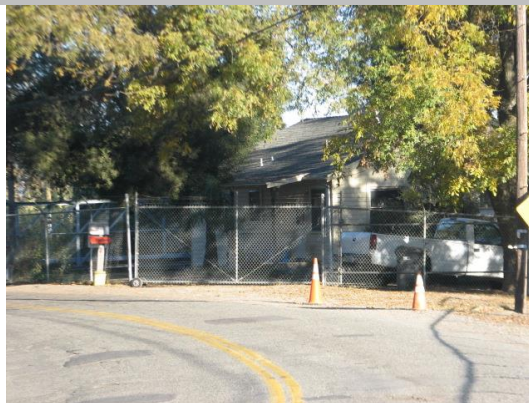
Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|--|------------------------|--------------|-----|------------------------|---------------|
| LM Start | 0.06 | Rating ** | A/W | Issue No. | 1 |
| LM End | 0.06 | Issue Type + | En | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.675998 ° | 38.675998 ° |
| | | | | -121.630732 ° | -121.630732 ° |
| DWR ID | DWR_RD1600_01_s_2012_1 | | | | |
| Comment Code | | | | | |
| BU : Building | | | | | |
| Inspector Comment | | | | | |
| This is the new pumping plant for RD 2035. | | | | | |

Photo 1 of 3 : SP_2017_RD1600_191_1_20170320_00001.jpg



The caretakers home for the operator of the pumping plant (RD 2035).
Fall 2013

| | | | | | |
|----------|-------------|--------------|-----|------------|-----------------|
| LM Start | 0.06 | Rating ** | A/W | Issue No. | 1 (cont) |
| LM End | 0.06 | Issue Type + | En | Location * | WS |

Photo 2 of 3 : SP_2017_RD1600_191_1_20170320_00002.jpg



Building was removed due to a new construction. Fall 2016.

| | | | | | |
|----------|-------------|--------------|-----|------------|-----------------|
| LM Start | 0.06 | Rating ** | A/W | Issue No. | 1 (cont) |
| LM End | 0.06 | Issue Type + | En | Location * | WS |

Photo 3 of 3 : SP_2017_RD1600_191_1_20170320_00003.jpg



View of a new pumping plant construction. Fall 2016.

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|--|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.08 | Rating ** | M | Issue No. | 25 |
| LM End | 0.08 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 38.676163 ° | 38.676163 ° |
| | | | | -121.631005 ° | -121.631005 ° |
| DWR ID | DWR_RD1600_01_s_2017_25 | | | | |
| Comment Code | | | | | |
| E2 : Schedule repair of erosion site prior to the next inspection. | | | | | |
| Inspector Comment | | | | | |
| Visibile rills on the waterside levee slope. RD placed visqueen and sandbags to prevent further erosion. | | | | | |

Photo 1 of 1 : SP_2017_RD1600_191_25_20170413_00123.jpg



Runoff erosion on waterside levee slope. LMA placed visqueen to prevent further erosion. Spring 2017.

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.09 | Rating ** | U | Issue No. | 39 |
| LM End | 6.30 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.676299 ° | 38.755371 ° |
| | | | | -121.631118 ° | -121.594582 ° |
| DWR ID | DWR_RD1600_01_s_2017_39 | | | | |
| Comment Code | | | | | |
| V1 : Control annual grass and weeds on the levee slopes and easements. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2017_RD1600_191_39_20170413_00124.jpg



Tall grass on landside levee slope, blocking visibility. Spring 2017.

| | | | | | |
|---|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.10 | Rating ** | M | Issue No. | 129 |
| LM End | 0.10 | Issue Type + | En | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.676467 ° | 38.676467 ° |
| | | | | -121.631217 ° | -121.631217 ° |
| DWR ID | DWR_RD1600_01_f_2013_129 | | | | |
| Comment Code | | | | | |
| BU : Building | | | | | |
| Inspector Comment | | | | | |
| This is a well pump house. It is potable water for the house and pumping plant. | | | | | |

Photo 1 of 2 : SP_2017_RD1600_191_129_20170320_00080.jpg



The small building is a pump house for the well. It services the house with water. Fall 2013

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|--|--|---|--|---|--|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | | |
|---|--------------------------|--------------|----|------------------------|------------|---------------|
| LM Start | 0.10 | Rating ** | M | Issue No. | 129 (cont) | |
| LM End | 0.10 | Issue Type + | En | Location * | WS | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | Encroachments | | | 38.676467 ° | | 38.676467 ° |
| | | | | -121.631217 ° | | -121.631217 ° |
| DWR ID | DWR_RD1600_01_f_2013_129 | | | | | |
| Comment Code | | | | | | |
| BU : Building | | | | | | |
| Inspector Comment | | | | | | |
| This is a well pump house. It is potable water for the house and pumping plant. | | | | | | |

Photo 2 of 2 : SP_2017_RD1600_191_129_20170320_00081.jpg



Updated view of the building. Fall 2016.

| | | | | | |
|----------------------------------|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 0.11 | Rating ** | A/W | Issue No. | 49 |
| LM End | 0.23 | Issue Type + | Ob | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.676577 ° | 38.678131 ° |
| | | | | -121.631290 ° | -121.632324 ° |
| DWR ID | DWR_RD1600_01_s_2012_49 | | | | |
| Comment Code | | | | | |
| V8 : Environmental Requirements. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 2 : SP_2017_RD1600_191_49_20170320_00052.jpg



Sign stating revegetation site. Spring 2016.

| | | | | | |
|----------|-------------|--------------|-----|------------|------------------|
| LM Start | 0.11 | Rating ** | A/W | Issue No. | 49 (cont) |
| LM End | 0.23 | Issue Type + | Ob | Location * | WS |

Photo 2 of 2 : SP_2017_RD1600_191_49_20170320_00053.jpg



View of the revegetation site and fence on the waterward side of the levee looking upstream. Spring 2016.

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|--|--|---|--|---|--|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|---|---------------------------|--------------|-----|------------------------|---------------|
| LM Start | 0.12 | Rating ** | A/W | Issue No. | 38 |
| LM End | 0.12 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 38.676654 ° | 38.676654 ° |
| | | | | -121.631348 ° | -121.631348 ° |
| DWR ID | DWR_RD1600_01_f _ 2015_38 | | | | |
| Comment Code | | | | | |
| S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2017_RD1600_191_38_20170320_00043.jpg



View of a slope depression on the landward side of the levee looking downstream. Fall 2015.

| | | | | | |
|---|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 0.12 | Rating ** | A/W | Issue No. | 46 |
| LM End | 0.12 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 38.676660 ° | 38.676660 ° |
| | | | | -121.631337 ° | -121.631337 ° |
| DWR ID | DWR_RD1600_01_s_2017_46 | | | | |
| Comment Code | | | | | |
| E1 : Note and monitor erosion site. | | | | | |
| Inspector Comment | | | | | |
| Two small rills on waterside levee slope. | | | | | |

Photo 1 of 1 : SP_2017_RD1600_191_46_20170413_00125.jpg



Rills from runoff on waterside levee slope. Spring 2017.

| | | | | | |
|-------------------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.13 | Rating ** | C | Issue No. | 26 |
| LM End | 0.13 | Issue Type + | En | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.676775 ° | 38.676775 ° |
| | | | | -121.631435 ° | -121.631435 ° |
| DWR ID | DWR_RD1600_01_f_2016_26 | | | | |
| Comment Code | | | | | |
| MA : Material | | | | | |
| Inspector Comment | | | | | |
| Rockpile blocks levee access. | | | | | |

No Photos

| | | | | | |
|-----------------|----------------------|--------------------------|---|-----------------------------------|--|
| * Location | | ** Rating | | + Issue Type | |
| LS : Land Side | N/A : Not Applicable | A : Acceptable | N : Not Inspected/Rated | Ma : Maintenance Deficiency | |
| WS : Water Side | | M : Minimally Acceptable | C : Corrected | Ob : Design & System Obsolescence | |
| CR : Crown | | U : Unacceptable | A/W : Acceptable but Monitor & Maintain | En : Enforcement | |

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|---|----------------------|--------------|----|------------------------|---------------|
| LM Start | 0.13 | Rating ** | M | Issue No. | 1203 |
| LM End | 0.13 | Issue Type + | En | Location * | CR |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.676802 ° | 38.676802 ° |
| | | | | -121.631442 ° | -121.631442 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:15087 DS_ID:21459 EP_NO: 1929 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Line should be located with carsonite signs on both sides of levee. FIELD_STRUCT_DESC: Telephone cable through levee 3.0 feet below crown. Telephone line at JP off LS toe (Permit No. 1929, 1959). FS Date: 6/18/2013 | | | | | |

Photo 1 of 1 : UCIP_SP_2017_15087_24812.jpg



Line visible on JP off LS toe. Likely this is the source of crossing.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.33 | Rating ** | C | Issue No. | 40 |
| LM End | 0.33 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 38.679472 ° | 38.679472 ° |
| | | | | -121.633053 ° | -121.633053 ° |
| DWR ID | DWR_RD1600_01_f_2015_40 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|--|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.53 | Rating ** | M | Issue No. | 133 |
| LM End | 0.53 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 38.682140 ° | 38.682140 ° |
| | | | | -121.634083 ° | -121.634083 ° |
| DWR ID | DWR_RD1600_01_f_2013_133 | | | | |
| Comment Code | | | | | |
| S2 : Repair the levee slope damaged by foot traffic and prevent access where possible. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 0.53 | Rating ** | M | Issue No. | 133 (cont) |
| LM End | 0.53 | Issue Type + | Ma | Location * | LS |

Photo 1 of 2 : SP_2017_RD1600_191_133_20170320_00082.jpg



Updated view of the slope stability site. Fall 2016.

Photo 2 of 2 : SP_2017_RD1600_191_133_20170320_00083.jpg



View of the slope stability on the landward side of the levee. Fall 2015.

| | | | | | |
|--|----------------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.56 | Rating ** | M | Issue No. | 7 |
| LM End | 0.66 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2015 USACE Erosion Survey, DRAFT | | | 38.682707 ° | 38.684106 ° |
| | | | | -121.633830 ° | -121.634219 ° |
| DWR ID | DWR_RD1600_01_s_2016_7 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| 2000 - Very cohesive vertical bank. 2003 - Some minor new erosion. 2006 - Some minor erosion in old pockets. 2009 - Minimal new erosion. 2011 - Multiple new erosion pockets and a few new tree popouts. 2015: No observed changes. [2015 Site ID: SAC_71-3_R] | | | | | |

Photo 1 of 1 : SP_2017_RD1600_191_7_20170320_00012.jpg



USACE 2013 Photo #1

| | | | | | |
|-----------------|----------------------|--------------------------|---|-----------------------------------|--|
| * Location | | ** Rating | | + Issue Type | |
| LS : Land Side | N/A : Not Applicable | A : Acceptable | N : Not Inspected/Rated | Ma : Maintenance Deficiency | |
| WS : Water Side | | M : Minimally Acceptable | C : Corrected | Ob : Design & System Obsolescence | |
| CR : Crown | | U : Unacceptable | A/W : Acceptable but Monitor & Maintain | En : Enforcement | |

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.60 | Rating ** | M | Issue No. | 29 |
| LM End | 0.62 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.683238 ° | 38.683415 ° |
| | | | | -121.634388 ° | -121.634448 ° |
| DWR ID | DWR_RD1600_01_s_2016_29 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| Recommend removal of willow trees. | | | | | |

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 0.60 | Rating ** | M | Issue No. | 29 (cont) |
| LM End | 0.62 | Issue Type + | Ma | Location * | WS |

Photo 1 of 3 : SP_2017_RD1600_191_29_20170320_00033.jpg



Perspective view of the willows on the waterward side of the levee looking upstream. Spring 2016.

Photo 2 of 3 : SP_2017_RD1600_191_29_20170320_00034.jpg



Willows are growing on the waterward side of the levee. Spring 2016.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 0.60 | Rating ** | M | Issue No. | 29 (cont) |
| LM End | 0.62 | Issue Type + | Ma | Location * | WS |

Photo 3 of 3 : SP_2017_RD1600_191_29_20170320_00035.jpg



Updated view of willows on waterward side. Fall 2016.

| | | | | | | | |
|--|--|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|--|--|--|--|---|--|---|--|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.78 | Rating ** | N | Issue No. | 624 |
| LM End | 0.78 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 38.685713 ° | 38.685713 ° |
| | | | | -121.634985 ° | -121.634985 ° |
| DWR ID | DWR_RD1600_01_s_2017_624 | | | | |
| Comment Code | | | | | |
| T5 : Tree stumps. | | | | | |
| Inspector Comment | | | | | |
| The tree is dying and needs to be monitored. | | | | | |

Photo 1 of 2 : SP_2017_RD1600_191_624_20170320_00088.jpg



View of the dying tree on the waterward side of the levee looking upstream. Spring 2016.

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 0.78 | Rating ** | N | Issue No. | 624 (cont) |
| LM End | 0.78 | Issue Type + | Ma | Location * | WS |

Photo 2 of 2 : SP_2017_RD1600_191_624_20170320_00089.jpg



Dying tree on waterward side was burnt. Fall 2016.

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|--|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start | 0.94 | Rating ** | M | Issue No. | 1204 |
| LM End | 0.94 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.688030 ° | 38.688030 ° |
| | | | | -121.635367 ° | -121.635367 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:15285 DS_ID:21463 EP_NO: 6100 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Gate valve will not open or close. FIELD_STRUCT_DESC: 12-inch pipe through levee 3.4 feet below crown. Slant pump and gate valve on the waterward- slope. Siphon breaker in 12-inch steel riser on the landward shoulder. Filter, booster pump, and butterfly valve on LS toe. 2.25-inch galvanized iron electrical conduit at same location (Permit No. 6100, 1968). Replaced 8-inch pipe at same location. FS Date: 6/18/2013 | | | | | |

| | | | | | |
|----------|-------------|--------------|----|------------|--------------------|
| LM Start | 0.94 | Rating ** | M | Issue No. | 1204 (cont) |
| LM End | 0.94 | Issue Type + | En | Location * | WS |

Photo 1 of 3 : UCIP_SP_2017_15285_25088.jpg



Siphon breaker in steel riser on LS shoulder and concrete standpipe off LS toe.

Photo 2 of 3 : UCIP_SP_2017_15285_25087.jpg



Pump and gate valve on WS slope.

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|--|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | | |
|--|----------------------|--------------|----|------------------------|-------------|---------------|
| LM Start | 0.94 | Rating ** | M | Issue No. | 1204 (cont) | |
| LM End | 0.94 | Issue Type + | En | Location * | WS | |
| Category | Supplemental | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | DWR UCIP Field Study | | | 38.688030 ° | | 38.688030 ° |
| | | | | -121.635367 ° | | -121.635367 ° |
| DWR ID | | | | | | |
| Comment Code | | | | | | |
| | | | | | | |
| Inspector Comment | | | | | | |
| FS_ID:15285 DS_ID:21463 EP_NO: 6100 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Gate valve will not open or close. FIELD_STRUCT_DESC: 12-inch pipe through levee 3.4 feet below crown. Slant pump and gate valve on the waterward- slope. Siphon breaker in 12-inch steel riser on the landward shoulder. Filter, booster pump, and butterfly valve on LS toe. 2.25-inch galvanized iron electrical conduit at same location (Permit No. 6100, 1968). Replaced 8-inch pipe at same location. FS Date: 6/18/2013 | | | | | | |

Photo 3 of 3 : UCIP_SP_2017_15285_25086.jpg



Filters, boost pump, and gate valve down stream from concrete standpipe off LS toe.

| | | | | | |
|--------------------------------|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.97 | Rating ** | M | Issue No. | 134 |
| LM End | 0.97 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 38.688454 ° | 38.688454 ° |
| | | | | -121.635528 ° | -121.635528 ° |
| DWR ID | DWR_RD1600_01_f_2013_134 | | | | |
| Comment Code | | | | | |
| S1 : Repair slope instability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 2 : SP_2017_RD1600_191_134_20170320_00084.jpg



The levee has a deep depression caused by removed tree. Fall 2013

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | | |
|--------------------------------|--------------------------|--------------|----|------------------------|---------------|--|
| LM Start | 0.97 | Rating ** | M | Issue No. | 134 (cont) | |
| LM End | 0.97 | Issue Type + | Ma | Location * | LS | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| | | | | Start | End | |
| Item | Slope Stability | | | 38.688454 ° | 38.688454 ° | |
| | | | | -121.635528 ° | -121.635528 ° | |
| DWR ID | DWR_RD1600_01_f_2013_134 | | | | | |
| Comment Code | | | | | | |
| S1 : Repair slope instability. | | | | | | |
| Inspector Comment | | | | | | |
| | | | | | | |

Photo 2 of 2 : SP_2017_RD1600_191_134_20170320_00085.jpg



View of the depression of the slope on the landward side of the levee looking downstream. Fall 2015.

| | | | | | |
|----------------------------------|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 1.01 | Rating ** | A/W | Issue No. | 22 |
| LM End | 1.10 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.689092 ° | 38.690368 ° |
| | | | | -121.635616 ° | -121.635669 ° |
| DWR ID | DWR_RD1600_01_s_2012_22 | | | | |
| Comment Code | | | | | |
| V8 : Environmental Requirements. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 2 : SP_2017_RD1600_191_22_20170320_00024.jpg



View of the revegetation site at the berm edge on the waterward side of the levee looking upstream. Spring 2016.

| | | | | | |
|----------|-------------|--------------|-----|------------|------------------|
| LM Start | 1.01 | Rating ** | A/W | Issue No. | 22 (cont) |
| LM End | 1.10 | Issue Type + | Ma | Location * | WS |

Photo 2 of 2 : SP_2017_RD1600_191_22_20170320_00025.jpg



Sign stating revegetation site. Spring 2016.

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|--|--|---|--|---|--|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.26 | Rating ** | C | Issue No. | 42 |
| LM End | 1.26 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.692637 ° | 38.692637 ° |
| | | | | -121.635247 ° | -121.635247 ° |
| DWR ID | DWR_RD1600_01_s_2017_42 | | | | |
| Comment Code | | | | | |
| PR : Prunings | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|---|------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.39 | Rating ** | M | Issue No. | 4 |
| LM End | 1.39 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 38.694395 ° | 38.694395 ° |
| | | | | -121.634376 ° | -121.634376 ° |
| DWR ID | DWR_RD1600_01_s_2017_4 | | | | |
| Comment Code | | | | | |
| S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. | | | | | |
| Inspector Comment | | | | | |
| Damage looks like caused by vehicles. | | | | | |

| | | | | | |
|----------|-------------|--------------|----|------------|-----------------|
| LM Start | 1.39 | Rating ** | M | Issue No. | 4 (cont) |
| LM End | 1.39 | Issue Type + | Ma | Location * | LS |

Photo 1 of 2 : SP_2017_RD1600_191_4_20170320_00007.jpg



Erosion from vehicles on levee slope. Spring 2013

Photo 2 of 2 : SP_2017_RD1600_191_4_20170320_00008.jpg



View of the slope stability caused by vehicles on the landward side of the levee looking upstream. Fall 2015.

| | | | | | |
|---|--|--|--|--|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|---|--|--|--|--|--|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|----------------------------------|------------------------|--------------|-----|------------------------|---------------|
| LM Start | 1.40 | Rating ** | A/W | Issue No. | 5 |
| LM End | 1.40 | Issue Type + | Ob | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.694469 ° | 38.694469 ° |
| | | | | -121.634312 ° | -121.634312 ° |
| DWR ID | DWR_RD1600_01_f_2012_5 | | | | |
| Comment Code | | | | | |
| V8 : Environmental Requirements. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 2 : SP_2017_RD1600_191_5_20170320_00009.jpg



View of the revegetation site on the berm of the waterward side of the levee looking upstream. Spring 2016.

| | | | | | |
|----------|-------------|--------------|-----|------------|-----------------|
| LM Start | 1.40 | Rating ** | A/W | Issue No. | 5 (cont) |
| LM End | 1.40 | Issue Type + | Ob | Location * | WS |

Photo 2 of 2 : SP_2017_RD1600_191_5_20170320_00010.jpg



DWR revegetation site. Spring 2016.

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.53 | Rating ** | M | Issue No. | 50 |
| LM End | 1.58 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.696341 ° | 38.696918 ° |
| | | | | -121.633417 ° | -121.633044 ° |
| DWR ID | DWR_RD1600_01_s_2016_50 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| Remove willows on waterward side of the levee. | | | | | |

Photo 1 of 1 : SP_2017_RD1600_191_50_20170320_00054.jpg



View of willows on waterward side of the levee. Recommended removal. Fall 2016.

| | | | | | |
|-----------------|----------------------|--------------------------|---|-----------------------------------|--|
| * Location | | ** Rating | | + Issue Type | |
| LS : Land Side | N/A : Not Applicable | A : Acceptable | N : Not Inspected/Rated | Ma : Maintenance Deficiency | |
| WS : Water Side | | M : Minimally Acceptable | C : Corrected | Ob : Design & System Obsolescence | |
| CR : Crown | | U : Unacceptable | A/W : Acceptable but Monitor & Maintain | En : Enforcement | |

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.70 | Rating ** | M | Issue No. | 70 |
| LM End | 1.70 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 38.698414 ° | 38.698414 ° |
| | | | | -121.631874 ° | -121.631874 ° |
| DWR ID | DWR_RD1600_01_s_2016_70 | | | | |
| Comment Code | | | | | |
| S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2017_RD1600_191_70_20170320_00072.jpg



View of slope instability due to vehicular activity. Fall 2016.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.72 | Rating ** | M | Issue No. | 71 |
| LM End | 1.72 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 38.698628 ° | 38.698628 ° |
| | | | | -121.631694 ° | -121.631694 ° |
| DWR ID | DWR_RD1600_01_s_2016_71 | | | | |
| Comment Code | | | | | |
| S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2017_RD1600_191_71_20170320_00073.jpg



View of the ruts on the shoulder of the levee on the waterward side.
Spring 2016.

| | | | | | |
|---|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 1.72 | Rating ** | A/W | Issue No. | 31 |
| LM End | 1.72 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.698639 ° | 38.698639 ° |
| | | | | -121.631687 ° | -121.631687 ° |
| DWR ID | DWR_RD1600_01_s_2012_31 | | | | |
| Comment Code | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 2 : SP_2017_RD1600_191_31_20170320_00038.jpg



A photo of a Elderberry bush in the area.

| | | | | | | | |
|--|--|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|--|--|--|--|---|--|---|--|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | | |
|---|-------------------------|--------------|-----|------------------------|-----------|---------------|
| LM Start | 1.72 | Rating ** | A/W | Issue No. | 31 (cont) | |
| LM End | 1.72 | Issue Type + | Ma | Location * | WS | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | Vegetation | | | 38.698639 ° | | 38.698639 ° |
| | | | | -121.631687 ° | | -121.631687 ° |
| DWR ID | DWR_RD1600_01_s_2012_31 | | | | | |
| Comment Code | | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | | |
| Inspector Comment | | | | | | |
| | | | | | | |

Photo 2 of 2 : SP_2017_RD1600_191_31_20170320_00039.jpg



Revegetation site with the Elderberry Beetle. Photo taken spring 2012.

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.01 | Rating ** | M | Issue No. | 72 |
| LM End | 2.01 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 38.701605 ° | 38.701605 ° |
| | | | | -121.627954 ° | -121.627954 ° |
| DWR ID | DWR_RD1600_01_s_2016_72 | | | | |
| Comment Code | | | | | |
| E2 : Schedule repair of erosion site prior to the next inspection. | | | | | |
| Inspector Comment | | | | | |
| Erosion seems to be caused by rain runoffs. Slope is graveled. Unsure if it is being used as a ramp. | | | | | |

Photo 1 of 4 : SP_2017_RD1600_191_72_20170320_00074.jpg



Erosion is on the landward side of the levee about midway from the shoulder of the levee. Spring 2016.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 2.01 | Rating ** | M | Issue No. | 72 (cont) |
| LM End | 2.01 | Issue Type + | Ma | Location * | LS |

Photo 2 of 4 : SP_2017_RD1600_191_72_20170320_00075.jpg



Updated view of the erosion site. Fall 2016.

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|--|--|---|--|---|--|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|--|
| LM Start | 2.01 | Rating ** | M | Issue No. | 72 (cont) | |
| LM End | 2.01 | Issue Type + | Ma | Location * | LS | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| | | | | Start | End | |
| Item | Erosion / Bank Caving | | | 38.701605 ° | 38.701605 ° | |
| | | | | -121.627954 ° | -121.627954 ° | |
| DWR ID | DWR_RD1600_01_s_2016_72 | | | | | |
| Comment Code | | | | | | |
| E2 : Schedule repair of erosion site prior to the next inspection. | | | | | | |
| Inspector Comment | | | | | | |
| Erosion seems to be caused by rain runoffs. Slope is graveled. Unsure if it is being used as a ramp. | | | | | | |

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 2.01 | Rating ** | M | Issue No. | 72 (cont) |
| LM End | 2.01 | Issue Type + | Ma | Location * | LS |

Photo 3 of 4 : SP_2017_RD1600_191_72_20170320_00076.jpg



Perspective view of the erosion on the landward side of the levee looking upstream. Spring 2016.

Photo 4 of 4 : SP_2017_RD1600_191_72_20170413_00126.jpg



Updated view of the erosion site. Spring 2017.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.02 | Rating ** | M | Issue No. | 52 |
| LM End | 2.02 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 38.701753 ° | 38.701753 ° |
| | | | | -121.627734 ° | -121.627734 ° |
| DWR ID | DWR_RD1600_01_f_2015_52 | | | | |
| Comment Code | | | | | |
| S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2017_RD1600_191_52_20170320_00056.jpg



View of the slope stability caused by vehicles on the waterward side of the levee looking upstream. Fall 2015.

| | | | | | | | |
|--|--|--|--|--|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|--|--|--|--|--|--|---|--|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.06 | Rating ** | C | Issue No. | 53 |
| LM End | 2.06 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 38.702063 ° | 38.702063 ° |
| | | | | -121.627214 ° | -121.627214 ° |
| DWR ID | DWR_RD1600_01_f_2015_53 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.10 | Rating ** | M | Issue No. | 55 |
| LM End | 2.10 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 38.702416 ° | 38.702416 ° |
| | | | | -121.626593 ° | -121.626593 ° |
| DWR ID | DWR_RD1600_01_f_2015_55 | | | | |
| Comment Code | | | | | |
| S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2017_RD1600_191_55_20170320_00059.jpg



View of the slope stability damaged by vehicles on the landward side of the levee. Fall 2015.

| | | | | | |
|--------------------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.17 | Rating ** | M | Issue No. | 56 |
| LM End | 2.17 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 38.703025 ° | 38.703025 ° |
| | | | | -121.625605 ° | -121.625605 ° |
| DWR ID | DWR_RD1600_01_f_2015_56 | | | | |
| Comment Code | | | | | |
| S1 : Repair slope instability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 2 : SP_2017_RD1600_191_56_20170320_00060.jpg



View of the sloughing on the landward side of the levee looking upstream. Fall 2015.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | | |
|--------------------------------|-------------------------|--------------|----|------------------------|-----------|---------------|
| LM Start | 2.17 | Rating ** | M | Issue No. | 56 (cont) | |
| LM End | 2.17 | Issue Type + | Ma | Location * | LS | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | Slope Stability | | | 38.703025 ° | | 38.703025 ° |
| | | | | -121.625605 ° | | -121.625605 ° |
| DWR ID | DWR_RD1600_01_f_2015_56 | | | | | |
| Comment Code | | | | | | |
| S1 : Repair slope instability. | | | | | | |
| Inspector Comment | | | | | | |
| | | | | | | |

Photo 2 of 2 : SP_2017_RD1600_191_56_20170320_00061.jpg



Updated view of the sloughing on LS slope. Fall 2016.

| | | | | | |
|----------------------------------|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 2.35 | Rating ** | A/W | Issue No. | 35 |
| LM End | 2.40 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.704624 ° | 38.705152 ° |
| | | | | -121.623034 ° | -121.622187 ° |
| DWR ID | DWR_RD1600_01_s_2012_35 | | | | |
| Comment Code | | | | | |
| V8 : Environmental Requirements. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 2 : SP_2017_RD1600_191_35_20170320_00040.jpg



Sign for revegetation site. Spring 2016.

| | | | | | |
|----------|-------------|--------------|-----|------------|------------------|
| LM Start | 2.35 | Rating ** | A/W | Issue No. | 35 (cont) |
| LM End | 2.40 | Issue Type + | Ma | Location * | WS |

Photo 2 of 2 : SP_2017_RD1600_191_35_20170320_00041.jpg



View of the revegetation site on the waterward side of the levee looking upstream. Spring 2016.

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
| | | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | | |

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.41 | Rating ** | M | Issue No. | 43 |
| LM End | 2.41 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 38.705203 ° | 38.705203 ° |
| | | | | -121.622184 ° | -121.622184 ° |
| DWR ID | DWR_RD1600_01_f_2016_43 | | | | |
| Comment Code | | | | | |
| S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2017_RD1600_191_43_20170320_00047.jpg



LS slope damaged by a vehicle. Fall 2016.

| | | | | | |
|---|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 2.61 | Rating ** | A/W | Issue No. | 45 |
| LM End | 2.61 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.707311 ° | 38.707311 ° |
| | | | | -121.619517 ° | -121.619517 ° |
| DWR ID | DWR_RD1600_01_f_2016_45 | | | | |
| Comment Code | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2017_RD1600_191_45_20170320_00049.jpg



Elderberry tree on landside slope. Fall 2016.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start | 2.81 | Rating ** | M | Issue No. | 1205 |
| LM End | 2.81 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.709350 ° | 38.709350 ° |
| | | | | -121.616913 ° | -121.616913 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:15108 | | | | | |
| DS_ID:21467 | | | | | |
| EP_NO: N/A | | | | | |
| Repair Type: Non-Urgent | | | | | |
| Crossing Status: Found | | | | | |
| UCIP Comments: Appears abandoned and should be done so properly. Debris buildup on pier. Power cut to pump. | | | | | |
| FIELD_STRUCT_DESC: 16-inch pipe through levee 2-feet below crown. Walkway from berm to pump on pile structure in the stream. | | | | | |
| Siphon breaker on the landward slope. 12-inch PVC standpipe off LS toe. Originally included in 1955 O+M manual. | | | | | |
| FS Date: 6/18/2013 | | | | | |

Photo 1 of 3 : UCIP_SP_2017_15108_24826.jpg



Pump on metal platform off WS berm.

| | | | | | |
|----------|-------------|--------------|----|------------|--------------------|
| LM Start | 2.81 | Rating ** | M | Issue No. | 1205 (cont) |
| LM End | 2.81 | Issue Type + | En | Location * | LS |

Photo 2 of 3 : UCIP_SP_2017_15108_24825.jpg



Debris buildup at metal platform waterline.

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | | |
|--|----------------------|--------------|----|------------------------|-------------|---------------|
| LM Start | 2.81 | Rating ** | M | Issue No. | 1205 (cont) | |
| LM End | 2.81 | Issue Type + | En | Location * | LS | |
| Category | Supplemental | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | DWR UCIP Field Study | | | 38.709350 ° | | 38.709350 ° |
| | | | | -121.616913 ° | | -121.616913 ° |
| DWR ID | | | | | | |
| Comment Code | | | | | | |
| | | | | | | |
| Inspector Comment | | | | | | |
| FS_ID:15108 | | | | | | |
| DS_ID:21467 | | | | | | |
| EP_NO: N/A | | | | | | |
| Repair Type: Non-Urgent | | | | | | |
| Crossing Status: Found | | | | | | |
| UCIP Comments: Appears abandoned and should be done so properly. Debris buildup on pier. Power cut to pump. | | | | | | |
| FIELD_STRUCT_DESC: 16-inch pipe through levee 2-feet below crown. Walkway from berm to pump on pile structure in the stream. | | | | | | |
| Siphon breaker on the landward slope. 12-inch PVC standpipe off LS toe. Originally included in 1955 O+M manual. | | | | | | |
| FS Date: 6/18/2013 | | | | | | |

Photo 3 of 3 : UCIP_SP_2017_15108_24824.jpg



Electrical cut to pump.

| | | | | | |
|---|----------------------|--------------|----|------------------------|---------------|
| LM Start | 2.93 | Rating ** | M | Issue No. | 1206 |
| LM End | 2.93 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.710497 ° | 38.710497 ° |
| | | | | -121.615381 ° | -121.615381 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:15110 DS_ID:21490 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Abandoned and should be removed from levee. FIELD_STRUCT_DESC: *ABANDONED* 10-inch concrete pipe through levee 5.0 feet below crown. Pipe visible on LS slope. Originally included in the 1955 O&M manual. FS Date: 6/18/2013 | | | | | |

Photo 1 of 2 : UCIP_SP_2017_15110_24828.jpg



Pipe visible on LS slope.

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|--|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|---|----------------------|--------------|----|------------------------|---------------|
| LM Start | 2.93 | Rating ** | M | Issue No. | 1206 (cont) |
| LM End | 2.93 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.710497 ° | 38.710497 ° |
| | | | | -121.615381 ° | -121.615381 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:15110 DS_ID:21490 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Abandoned and should be removed from levee. FIELD_STRUCT_DESC: *ABANDONED* 10-inch concrete pipe through levee 5.0 feet below crown. Pipe visible on LS slope. Originally included in the 1955 O&M manual. FS Date: 6/18/2013 | | | | | |

Photo 2 of 2 : UCIP_SP_2017_15110_24827.jpg



Pipe visible on LS slope.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.93 | Rating ** | M | Issue No. | 47 |
| LM End | 2.93 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 38.710518 ° | 38.710518 ° |
| | | | | -121.615366 ° | -121.615366 ° |
| DWR ID | DWR_RD1600_01_f_2016_47 | | | | |
| Comment Code | | | | | |
| S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2017_RD1600_191_47_20170320_00050.jpg



LS levee slope damaged by a vehicle. Fall 2016.

* Location
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

** Rating
 A : Acceptable
 M : Minimally Acceptable
 U : Unacceptable
 N : Not Inspected/Rated
 C : Corrected
 A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.00 | Rating ** | M | Issue No. | 75 |
| LM End | 3.00 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.711232 ° | 38.711232 ° |
| | | | | -121.614401 ° | -121.614401 ° |
| DWR ID | DWR_RD1600_01_s_2017_75 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| Remove wild growth on landside levee slope. | | | | | |

Photo 1 of 1 : SP_2017_RD1600_191_75_20170413_00127.jpg



Wild growth on landside levee slope. Spring 2017.

| | | | | | |
|---|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 3.04 | Rating ** | A/W | Issue No. | 37 |
| LM End | 3.04 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.711597 ° | 38.711597 ° |
| | | | | -121.613890 ° | -121.613890 ° |
| DWR ID | DWR_RD1600_01_s_2012_37 | | | | |
| Comment Code | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.04 | Rating ** | M | Issue No. | 76 |
| LM End | 3.04 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 38.711660 ° | 38.711660 ° |
| | | | | -121.613839 ° | -121.613839 ° |
| DWR ID | DWR_RD1600_01_s_2017_76 | | | | |
| Comment Code | | | | | |
| S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. | | | | | |
| Inspector Comment | | | | | |
| Slope depression on landside levee slope from vehicle traffic. | | | | | |

Photo 1 of 1 : SP_2017_RD1600_191_76_20170413_00128.jpg



Slope depression on landside levee slope from vehicle traffic. Spring 2017.

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|--|--|---|--|---|--|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.20 | Rating ** | M | Issue No. | 51 |
| LM End | 3.20 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.713393 ° | 38.713393 ° |
| | | | | -121.611828 ° | -121.611828 ° |
| DWR ID | DWR_RD1600_01_s_2017_51 | | | | |
| Comment Code | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.40 | Rating ** | M | Issue No. | 77 |
| LM End | 3.40 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.715681 ° | 38.715681 ° |
| | | | | -121.609555 ° | -121.609555 ° |
| DWR ID | DWR_RD1600_01_s_2017_77 | | | | |
| Comment Code | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.57 | Rating ** | M | Issue No. | 627 |
| LM End | 3.57 | Issue Type + | En | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.717717 ° | 38.717717 ° |
| | | | | -121.608015 ° | -121.608015 ° |
| DWR ID | DWR_RD1600_01_s_2014_627 | | | | |
| Comment Code | | | | | |
| DE : Debris | | | | | |
| Inspector Comment | | | | | |
| Some debris has been removed. Fall 2016. | | | | | |

Photo 1 of 2 : SP_2017_RD1600_191_627_20170320_00091.jpg



Metal pipe and wood debris is on the waterside berm. Spring 2014

| | | | | | |
|-----------------|----------------------|--------------------------|---|-----------------------------------|--|
| * Location | | ** Rating | | + Issue Type | |
| LS : Land Side | N/A : Not Applicable | A : Acceptable | N : Not Inspected/Rated | Ma : Maintenance Deficiency | |
| WS : Water Side | | M : Minimally Acceptable | C : Corrected | Ob : Design & System Obsolescence | |
| CR : Crown | | U : Unacceptable | A/W : Acceptable but Monitor & Maintain | En : Enforcement | |

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | | |
|--|--------------------------|--------------|----|------------------------|------------|---------------|
| LM Start | 3.57 | Rating ** | M | Issue No. | 627 (cont) | |
| LM End | 3.57 | Issue Type + | En | Location * | WS | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | Encroachments | | | 38.717717 ° | | 38.717717 ° |
| | | | | -121.608015 ° | | -121.608015 ° |
| DWR ID | DWR_RD1600_01_s_2014_627 | | | | | |
| Comment Code | | | | | | |
| DE : Debris | | | | | | |
| Inspector Comment | | | | | | |
| Some debris has been removed. Fall 2016. | | | | | | |

Photo 2 of 2 : SP_2017_RD1600_191_627_20170320_00092.jpg



View of the metal pipe and wood debris on the berm of the waterward side of the levee. Fall 2015.

| | | | | | |
|---|----------------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.58 | Rating ** | M | Issue No. | 3 |
| LM End | 3.83 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2015 USACE Erosion Survey, DRAFT | | | 38.717770 ° | 38.721351 ° |
| | | | | -121.607423 ° | -121.606414 ° |
| DWR ID | DWR_RD1600_01_s_2016_3 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| 1997 - Steep high bank. 2005 - Some small pockets in the low toe near the waterline. 2006 - Minor slope clearing. 2010 - Minor new erosion. 2011 - Multiple trees have fallen since last year. Some other trees look ready to fall. Significant new erosion since last year. 2012 - Minor new erosion. 2013 - Minor new erosion. 2015: New minor erosion at toe. [2015 Site ID: SAC 74-4 R] | | | | | |

Photo 1 of 1 : SP_2017_RD1600_191_3_20170320_00006.jpg



USACE 2013 Photo #1

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|--|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|-------------------|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.59 | Rating ** | M | Issue No. | 628 |
| LM End | 3.59 | Issue Type + | En | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.718080 ° | 38.718080 ° |
| | | | | -121.607815 ° | -121.607815 ° |
| DWR ID | DWR_RD1600_01_s_2014_628 | | | | |
| Comment Code | | | | | |
| DE : Debris | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 2 : SP_2017_RD1600_191_628_20170320_00093.jpg



View of the concrete pile on the berm of the waterward side of the levee. Spring 2016.

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 3.59 | Rating ** | M | Issue No. | 628 (cont) |
| LM End | 3.59 | Issue Type + | En | Location * | WS |

Photo 2 of 2 : SP_2017_RD1600_191_628_20170320_00094.jpg



Perspective view of the concrete pile looking upstream. Spring 2016.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.76 | Rating ** | U | Issue No. | 73 |
| LM End | 3.93 | Issue Type + | Ob | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Seepage / Sandboils | | | 38.720407 ° | 38.722850 ° |
| | | | | -121.606953 ° | -121.606899 ° |
| DWR ID | DWR_RD1600_01_s_2016_73 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| There appears to be a ponding issue and will have to be monitored during next inspection. | | | | | |
| | | | | | |

Photo 1 of 2 : SP_2017_RD1600_191_73_20170320_00077.jpg



View of the seepage by the road looking upstream. Spring 2016.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|--|
| LM Start | 3.76 | Rating ** | U | Issue No. | 73 (cont) | |
| LM End | 3.93 | Issue Type + | Ob | Location * | LS | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| | | | | Start | End | |
| Item | Seepage / Sandboils | | | 38.720407 ° | 38.722850 ° | |
| | | | | -121.606953 ° | -121.606899 ° | |
| DWR ID | DWR_RD1600_01_s_2016_73 | | | | | |
| Comment Code | | | | | | |
| | | | | | | |
| Inspector Comment | | | | | | |
| There appears to be a ponding issue and will have to be monitored during next inspection. | | | | | | |

Photo 2 of 2 : SP_2017_RD1600_191_73_20170320_00078.jpg



View taken from the crown of the levee of the seepage. Spring 2016.

| | | | | | |
|-------------------|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 3.83 | Rating ** | A/W | Issue No. | 54 |
| LM End | 3.83 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.721407 ° | 38.721407 ° |
| | | | | -121.606849 ° | -121.606849 ° |
| DWR ID | DWR_RD1600_01_s_2017_54 | | | | |
| Comment Code | | | | | |
| PR : Prunings | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2017_RD1600_191_54_20170320_00058.jpg



Prunings on landside slope. Fall 2016.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.89 | Rating ** | M | Issue No. | 67 |
| LM End | 3.89 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 38.722300 ° | 38.722300 ° |
| | | | | -121.606769 ° | -121.606769 ° |
| DWR ID | DWR_RD1600_01_f_2015_67 | | | | |
| Comment Code | | | | | |
| S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2017_RD1600_191_67_20170320_00070.jpg



View of the shoulder damaged by vehicles on the waterward side of the levee looking upstream. Fall 2015.

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|--|--|---|--|---|--|

Reclamation District No. 1600 Mull

Animal burrows on LS slope near the crown. Fall 2016.

USACE 2013 Photo #1Page 29 of 54

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|---|----------------------|--------------|----|------------------------|---------------|
| LM Start | 4.51 | Rating ** | M | Issue No. | 1207 |
| LM End | 4.51 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.731143 ° | 38.731143 ° |
| | | | | -121.605825 ° | -121.605825 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:15125 DS_ID:21470 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pumphouse abandoned with deep pit open. Safety issue. If plant is abandoned it should be done so properly. FIELD_STRUCT_DESC: 24-inch pipe through the levee 21.4 feet below the crown. 16-inch pipe ties into 24-inch at WS slope. Slant pump on metal platform and gate valve on water side berm. Gate valve in pump house off the landward side. Two power poles at the toe of the landward slope. FS Date: 6/18/2013 7:36:00 AM | | | | | |

| | | | | | |
|----------|-------------|--------------|----|------------|--------------------|
| LM Start | 4.51 | Rating ** | M | Issue No. | 1207 (cont) |
| LM End | 4.51 | Issue Type + | En | Location * | WS |

Photo 1 of 3 : UCIP_SP_2017_15125_24846.jpg



Pumphouse/distribution box off LS toe.

Photo 2 of 3 : UCIP_SP_2017_15125_24845.jpg



Slant pump on metal pier on WS berm.

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|--|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | | |
|---|----------------------|--------------|----|------------------------|---------------|--|
| LM Start | 4.51 | Rating ** | M | Issue No. | 1207 (cont) | |
| LM End | 4.51 | Issue Type + | En | Location * | WS | |
| Category | Supplemental | | | GPS Latitude/Longitude | | |
| | | | | Start | End | |
| Item | DWR UCIP Field Study | | | 38.731143 ° | 38.731143 ° | |
| | | | | -121.605825 ° | -121.605825 ° | |
| DWR ID | | | | | | |
| Comment Code | | | | | | |
| | | | | | | |
| Inspector Comment | | | | | | |
| FS_ID:15125 DS_ID:21470 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pumphouse abandoned with deep pit open. Safety issue. If plant is abandoned it should be done so properly. FIELD_STRUCT_DESC: 24-inch pipe through the levee 21.4 feet below the crown. 16-inch pipe ties into 24-inch at WS slope. Slant pump on metal platform and gate valve on water side berm. Gate valve in pump house off the landward side. Two power poles at the toe of the landward slope. FS Date: 6/18/2013 7:36:00 AM | | | | | | |

Photo 3 of 3 : UCIP_SP_2017_15125_24844.jpg



16-inch pipe ties into 24-inch pipe under pump platform at slide gate.

| | | | | | |
|---|----------------------|--------------|----|------------------------|---------------|
| LM Start | 4.52 | Rating ** | M | Issue No. | 1208 |
| LM End | 4.52 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.731280 ° | 38.731280 ° |
| | | | | -121.605825 ° | -121.605825 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:41563 DS_ID:21471 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe should be removed from slope. FIELD_STRUCT_DESC: *ABANDONED* 12-inch pipe through the levee 5.5 feet below the crown. Grouted in place 1957. FS Date: 6/18/2013 | | | | | |

Photo 1 of 2 : UCIP_SP_2017_41563_27474.jpg



Pipe and remnants of grouted pipe on LS slope.

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|--|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | | |
|---|----------------------|--------------|----|------------------------|-------------|---------------|
| LM Start | 4.52 | Rating ** | M | Issue No. | 1208 (cont) | |
| LM End | 4.52 | Issue Type + | En | Location * | WS | |
| Category | Supplemental | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | DWR UCIP Field Study | | | 38.731280 ° | | 38.731280 ° |
| | | | | -121.605825 ° | | -121.605825 ° |
| DWR ID | | | | | | |
| Comment Code | | | | | | |
| | | | | | | |
| Inspector Comment | | | | | | |
| FS_ID:41563 DS_ID:21471 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe should be removed from slope. FIELD_STRUCT_DESC: *ABANDONED* 12-inch pipe through the levee 5.5 feet below the crown. Grouted in place 1957. FS Date: 6/18/2013 | | | | | | |

Photo 2 of 2 : UCIP_SP_2017_41563_27473.jpg



Pipe and remnants of grouted pipe on LS slope.

| | | | | | |
|--------------------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.66 | Rating ** | M | Issue No. | 41 |
| LM End | 4.66 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 38.733294 ° | 38.733294 ° |
| | | | | -121.605484 ° | -121.605484 ° |
| DWR ID | DWR_RD1600_01_f_2015_41 | | | | |
| Comment Code | | | | | |
| S1 : Repair slope instability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2017_RD1600_191_41_20170320_00045.jpg



View of the bulge at the toe of the levee on the landward side looking downstream. Fall 2015.

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|--|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|---|---------------------------|--------------|-----|------------------------|---------------|
| LM Start | 4.75 | Rating ** | A/W | Issue No. | 1193 |
| LM End | 4.75 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.734561 ° | 38.734561 ° |
| | | | | -121.605113 ° | -121.605113 ° |
| DWR ID | DWR_RD1600_01_s_2015_1193 | | | | |
| Comment Code | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|---|---------------------------|--------------|-----|------------------------|---------------|
| LM Start | 4.76 | Rating ** | A/W | Issue No. | 1194 |
| LM End | 4.76 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.734784 ° | 38.734784 ° |
| | | | | -121.605048 ° | -121.605048 ° |
| DWR ID | DWR_RD1600_01_s_2015_1194 | | | | |
| Comment Code | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|--------------------------------|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.77 | Rating ** | M | Issue No. | 141 |
| LM End | 4.77 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 38.734840 ° | 38.734840 ° |
| | | | | -121.605026 ° | -121.605026 ° |
| DWR ID | DWR_RD1600_01_f_2013_141 | | | | |
| Comment Code | | | | | |
| S1 : Repair slope instability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 2 : SP_2017_RD1600_191_141_20170320_00086.jpg



The erosion at the shoulder of the levee could be slope instability. Fall 2013

| | | | | | |
|---|--|--|--|--|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|---|--|--|--|--|--|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | | |
|--------------------------------|--------------------------|--------------|----|------------------------|------------|---------------|
| LM Start | 4.77 | Rating ** | M | Issue No. | 141 (cont) | |
| LM End | 4.77 | Issue Type + | Ma | Location * | LS | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | Slope Stability | | | 38.734840 ° | | 38.734840 ° |
| | | | | -121.605026 ° | | -121.605026 ° |
| DWR ID | DWR_RD1600_01_f_2013_141 | | | | | |
| Comment Code | | | | | | |
| S1 : Repair slope instability. | | | | | | |
| Inspector Comment | | | | | | |
| | | | | | | |

Photo 2 of 2 : SP_2017_RD1600_191_141_20170320_00087.jpg



View of the erosion on the landward side of the levee looking upstream.
Fall 2015.

| | | | | | |
|---|---------------------------|--------------|-----|------------------------|---------------|
| LM Start | 4.79 | Rating ** | A/W | Issue No. | 1195 |
| LM End | 4.79 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.735111 ° | 38.735111 ° |
| | | | | -121.604923 ° | -121.604923 ° |
| DWR ID | DWR_RD1600_01_s_2015_1195 | | | | |
| Comment Code | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|---|---------------------------|--------------|-----|------------------------|---------------|
| LM Start | 4.80 | Rating ** | A/W | Issue No. | 1196 |
| LM End | 4.80 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.735275 ° | 38.735275 ° |
| | | | | -121.604863 ° | -121.604863 ° |
| DWR ID | DWR_RD1600_01_s_2015_1196 | | | | |
| Comment Code | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|-----------------|----------------------|--------------------------|---|-----------------------------------|--|
| * Location | | ** Rating | | + Issue Type | |
| LS : Land Side | N/A : Not Applicable | A : Acceptable | N : Not Inspected/Rated | Ma : Maintenance Deficiency | |
| WS : Water Side | | M : Minimally Acceptable | C : Corrected | Ob : Design & System Obsolescence | |
| CR : Crown | | U : Unacceptable | A/W : Acceptable but Monitor & Maintain | En : Enforcement | |

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|---|---------------------------|--------------|-----|------------------------|---------------|
| LM Start | 4.85 | Rating ** | A/W | Issue No. | 1197 |
| LM End | 4.85 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.736095 ° | 38.736095 ° |
| | | | | -121.604642 ° | -121.604642 ° |
| DWR ID | DWR_RD1600_01_s_2015_1197 | | | | |
| Comment Code | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|--------------------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.40 | Rating ** | M | Issue No. | 44 |
| LM End | 5.40 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 38.743585 ° | 38.743585 ° |
| | | | | -121.601447 ° | -121.601447 ° |
| DWR ID | DWR_RD1600_01_s_2016_44 | | | | |
| Comment Code | | | | | |
| S1 : Repair slope instability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2017_RD1600_191_44_20170320_00048.jpg



View of WS slope depression. Fall 2016.

| | | | | | |
|---|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 5.42 | Rating ** | A/W | Issue No. | 13 |
| LM End | 5.42 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.743805 ° | 38.743805 ° |
| | | | | -121.601319 ° | -121.601319 ° |
| DWR ID | DWR_RD1600_01_s_2012_13 | | | | |
| Comment Code | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|--|--|---|--|---|--|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|--|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 5.44 | Rating ** | A/W | Issue No. | 19 |
| LM End | 5.77 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 38.744118 ° | 38.748210 ° |
| | | | | -121.601104 ° | -121.598025 ° |
| DWR ID | DWR_RD1600_01_s_2012_19 | | | | |
| Comment Code | | | | | |
| E1 : Note and monitor erosion site. | | | | | |
| Inspector Comment | | | | | |
| Levee district had us add this because of the loss of the berm over years of water flows. Erosion is at the waters edge. Walnut trees are close to edge now. | | | | | |

No Photos

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.81 | Rating ** | M | Issue No. | 78 |
| LM End | 5.81 | Issue Type + | En | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.748731 ° | 38.748731 ° |
| | | | | -121.597591 ° | -121.597591 ° |
| DWR ID | DWR_RD1600_01_s_2017_78 | | | | |
| Comment Code | | | | | |
| MA : Material | | | | | |
| Inspector Comment | | | | | |
| Sand pile on waterside levee shoulder. | | | | | |

Photo 1 of 1 : SP_2017_RD1600_191_78_20170413_00129.jpg



View of sand pile on waterside levee shoulder. Spring 2017.

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.86 | Rating ** | U | Issue No. | 79 |
| LM End | 7.75 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.749368 ° | 38.774944 ° |
| | | | | -121.597175 ° | -121.602077 ° |
| DWR ID | DWR_RD1600_01_s_2017_79 | | | | |
| Comment Code | | | | | |
| V1 : Control annual grass and weeds on the levee slopes and easements. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2017_RD1600_191_79_20170413_00130.jpg



Tall grass on waterside levee slope, blocking visibility. Spring 2017.

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|--|--|---|--|---|--|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 6.00 | Rating ** | M | Issue No. | 59 |
| LM End | 6.11 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.751179 ° | 38.752670 ° |
| | | | | -121.596173 ° | -121.595485 ° |
| DWR ID | DWR_RD1600_01_f_2016_59 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2017_RD1600_191_59_20170320_00064.jpg



Vegetation on LS slope partially blocks visibility. Fall 2016.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 6.09 | Rating ** | M | Issue No. | 58 |
| LM End | 6.09 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 38.752358 ° | 38.752358 ° |
| | | | | -121.595608 ° | -121.595608 ° |
| DWR ID | DWR_RD1600_01_f_2015_58 | | | | |
| Comment Code | | | | | |
| S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2017_RD1600_191_58_20170320_00063.jpg



View of the slope stability on the waterward side of the levee looking upstream. Fall 2015.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|----------|----------------------|--------------|----|------------------------|---------------|
| LM Start | 6.19 | Rating ** | U | Issue No. | 1209 |
| LM End | 6.19 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.753820 ° | 38.753820 ° |
| | | | | -121.595012 ° | -121.595012 ° |
| DWR ID | | | | | |

Comment Code

Inspector Comment

FS_ID:50101
DS_ID:21476
EP_NO: N/A
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 08/15/2016 - no change since previous inspection (T. Hatch/UCIP)06/20/2013 - Pipe is abandoned and open on both ends. It should be abandoned properly. (W. Wylie/UCIP)
FIELD_STRUCT_DESC: *ABANDONED* 18-inch steel irrigation pipe through the levee, 4.5 feet below the crown. Pump on pile structure on the waterside (WS), pump not found and only the piles remain. Walkway between levee crown and pile structure on WS, not found. Overhead power line crosses levee, service pole on the WS slope. 6 foot by 6 foot concrete distribution box at the toe of the landside (LS) slope. [Additional Reference(s): DWR Levee Log, 1988. USACE Sacramento O&M Manual 123, August 1955 (RM 77)].
FS Date: 8/15/2016

| | | | | | |
|----------|-------------|--------------|----|------------|--------------------|
| LM Start | 6.19 | Rating ** | U | Issue No. | 1209 (cont) |
| LM End | 6.19 | Issue Type + | En | Location * | WS |

Photo 1 of 3 : UCIP_SP_2017_50101_25011.jpg



6'X6' concrete distribution box on LS toe.

Photo 2 of 3 : UCIP_SP_2017_50101_25010.jpg



Pipe on WS slope.

| * Location | ** Rating | + Issue Type |
|---|---|--|
| LS : Land Side WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
| | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | |

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | | |
|--|----------------------|--------------|----|------------------------|---------------|--|
| LM Start | 6.19 | Rating ** | U | Issue No. | 1209 (cont) | |
| LM End | 6.19 | Issue Type + | En | Location * | WS | |
| Category | Supplemental | | | GPS Latitude/Longitude | | |
| | | | | Start | End | |
| Item | DWR UCIP Field Study | | | 38.753820 ° | 38.753820 ° | |
| | | | | -121.595012 ° | -121.595012 ° | |
| DWR ID | | | | | | |
| Comment Code | | | | | | |
| | | | | | | |
| Inspector Comment | | | | | | |
| FS_ID:50101 DS_ID:21476 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 08/15/2016 - no change since previous inspection (T. Hatch/UCIP)06/20/2013 - Pipe is abandoned and open on both ends. It should be abandoned properly. (W. Wylie/UCIP) FIELD_STRUCT_DESC: *ABANDONED* 18-inch steel irrigation pipe through the levee, 4.5 feet below the crown. Pump on pile structure on the waterside (WS), pump not found and only the piles remain. Walkway between levee crown and pile structure on WS, not found. Overhead power line crosses levee, service pole on the WS slope. 6 foot by 6 foot concrete distribution box at the toe of the landside (LS) slope. [Additional Reference(s): DWR Levee Log, 1988. USACE Sacramento O&M Manual 123, August 1955 (RM 77)]. FS Date: 8/15/2016 | | | | | | |

Photo 3 of 3 : UCIP_SP_2017_50101_25009.jpg



Hole in pipe at WS toe.

| | | | | | |
|--|----------------------------------|--------------|-----|------------------------|---------------|
| LM Start | 6.30 | Rating ** | A/W | Issue No. | 9 |
| LM End | 6.36 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2015 USACE Erosion Survey, DRAFT | | | 38.755246 ° | 38.756186 ° |
| | | | | -121.594206 ° | -121.594024 ° |
| DWR ID | DWR_RD1600_01_s_2016_9 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| 2011 - Large vertical eroded face from a rotational failure just below pump. 2015: Does not meet criterial. [2015 Site ID: SAC_77-0_R] | | | | | |

Photo 1 of 1 : SP_2017_RD1600_191_9_20170320_00014.jpg



USACE 2013 Photo #1

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|--|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 6.39 | Rating ** | M | Issue No. | 1199 |
| LM End | 6.39 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 38.756612 ° | 38.756612 ° |
| | | | | -121.594370 ° | -121.594370 ° |
| DWR ID | DWR_RD1600_01_s_2015_1199 | | | | |
| Comment Code | | | | | |
| E1 : Note and monitor erosion site. | | | | | |
| Inspector Comment | | | | | |
| The erosion is caused by the water coming from the siphon breaker. | | | | | |

Photo 1 of 2 : SP_2017_RD1600_191_1199_20170320_00097.jpg



View of erosion and pipe on the landward side of the levee looking upstream. Spring 2015.

| | | | | | |
|----------|-------------|--------------|----|------------|--------------------|
| LM Start | 6.39 | Rating ** | M | Issue No. | 1199 (cont) |
| LM End | 6.39 | Issue Type + | Ma | Location * | LS |

Photo 2 of 2 : SP_2017_RD1600_191_1199_20170320_00098.jpg



Updated view of the pipe with syphon breaker. Fall 2016.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 6.56 | Rating ** | M | Issue No. | 80 |
| LM End | 6.56 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.759131 ° | 38.759131 ° |
| | | | | -121.594092 ° | -121.594092 ° |
| DWR ID | DWR_RD1600_01_s_2017_80 | | | | |
| Comment Code | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|-----------------|----------------------|--------------------------|---|-----------------------------------|--|
| * Location | | ** Rating | | + Issue Type | |
| LS : Land Side | N/A : Not Applicable | A : Acceptable | N : Not Inspected/Rated | Ma : Maintenance Deficiency | |
| WS : Water Side | | M : Minimally Acceptable | C : Corrected | Ob : Design & System Obsolescence | |
| CR : Crown | | U : Unacceptable | A/W : Acceptable but Monitor & Maintain | En : Enforcement | |

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 6.60 | Rating ** | M | Issue No. | 631 |
| LM End | 6.62 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.759633 ° | 38.760013 ° |
| | | | | -121.594128 ° | -121.594148 ° |
| DWR ID | DWR_RD1600_01_s_2014_631 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 2 : SP_2017_RD1600_191_631_20170320_00095.jpg



The tall brush and vegetation blocks visibility. Spring 2014

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 6.60 | Rating ** | M | Issue No. | 631 (cont) |
| LM End | 6.62 | Issue Type + | Ma | Location * | LS |

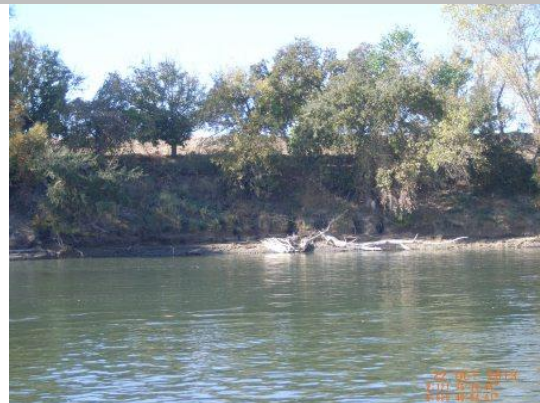
Photo 2 of 2 : SP_2017_RD1600_191_631_20170320_00096.jpg



View of the brush and vegetation on the landward side of the levee. Fall 2015.

| | | | | | |
|--|----------------------------------|--------------|----|------------------------|---------------|
| LM Start | 6.95 | Rating ** | M | Issue No. | 6 |
| LM End | 6.98 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2015 USACE Erosion Survey, DRAFT | | | 38.764801 ° | 38.765219 ° |
| | | | | -121.594926 ° | -121.595049 ° |
| DWR ID | DWR_RD1600_01_s_2016_6 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| 2006 - Eddy scour off end of rock causing erosion and scour hole near levee. Sandy silt bank with rock on upstream end. 2010 - Trees are leaning more, minor new erosion. 2011 - Many of the tree roots have scoured out and trees look ready to fall. 2015: No observed changes. [2015 Site ID: SAC 77-7 R] | | | | | |

Photo 1 of 1 : SP_2017_RD1600_191_6_20170320_00011.jpg



USACE 2013 Photo #1

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|--|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|-------------------------------------|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 6.97 | Rating ** | A/W | Issue No. | 27 |
| LM End | 6.97 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 38.764974 ° | 38.764974 ° |
| | | | | -121.595533 ° | -121.595533 ° |
| DWR ID | DWR_RD1600_01_s_2012_27 | | | | |
| Comment Code | | | | | |
| E1 : Note and monitor erosion site. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 3 : SP_2017_RD1600_191_27_20170320_00028.jpg



The erosion appears to be moving closer to the shoulder.

| | | | | | |
|----------|-------------|--------------|-----|------------|------------------|
| LM Start | 6.97 | Rating ** | A/W | Issue No. | 27 (cont) |
| LM End | 6.97 | Issue Type + | Ma | Location * | LS |

Photo 2 of 3 : SP_2017_RD1600_191_27_20170320_00029.jpg



The erosion seems to have been fixed. There still seems to be some erosion on the landward side of the levee looking downstream. Fall 2015.

| | | | | | |
|----------|-------------|--------------|-----|------------|------------------|
| LM Start | 6.97 | Rating ** | A/W | Issue No. | 27 (cont) |
| LM End | 6.97 | Issue Type + | Ma | Location * | LS |

Photo 3 of 3 : SP_2017_RD1600_191_27_20170320_00030.jpg



Updated view of erosion site. Fall 2016.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|-------------------------------------|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 6.97 | Rating ** | A/W | Issue No. | 30 |
| LM End | 6.97 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 38.764980 ° | 38.764980 ° |
| | | | | -121.595513 ° | -121.595513 ° |
| DWR ID | DWR_RD1600_01_s_2013_30 | | | | |
| Comment Code | | | | | |
| E1 : Note and monitor erosion site. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 2 : SP_2017_RD1600_191_30_20170320_00036.jpg



Erosion is into the berm area and needs to be monitored. Spring 2013

| | | | | | |
|----------|-------------|--------------|-----|------------|------------------|
| LM Start | 6.97 | Rating ** | A/W | Issue No. | 30 (cont) |
| LM End | 6.97 | Issue Type + | Ma | Location * | WS |

Photo 2 of 2 : SP_2017_RD1600_191_30_20170320_00037.jpg



View of the erosion into the berm area that needs to be monitored. Fall 2015.

| | | | | | |
|--|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 7.10 | Rating ** | A/W | Issue No. | 20 |
| LM End | 7.10 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 38.766691 ° | 38.766691 ° |
| | | | | -121.596300 ° | -121.596300 ° |
| DWR ID | DWR_RD1600_01_s_2012_20 | | | | |
| Comment Code | | | | | |
| E1 : Note and monitor erosion site. | | | | | |
| Inspector Comment | | | | | |
| Erosion present at the berm, and it hasn't got into the levee prism yet. | | | | | |

Photo 1 of 5 : SP_2017_RD1600_191_20_20170320_00016.jpg



This another view of the site.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | | |
|--|-------------------------|--------------|-----|------------------------|-----------|---------------|
| LM Start | 7.10 | Rating ** | A/W | Issue No. | 20 (cont) | |
| LM End | 7.10 | Issue Type + | Ma | Location * | WS | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | Erosion / Bank Caving | | | 38.766691 ° | | 38.766691 ° |
| | | | | -121.596300 ° | | -121.596300 ° |
| DWR ID | DWR_RD1600_01_s_2012_20 | | | | | |
| Comment Code | | | | | | |
| E1 : Note and monitor erosion site. | | | | | | |
| Inspector Comment | | | | | | |
| Erosion present at the berm, and it hasn't got into the levee prism yet. | | | | | | |

Photo 2 of 5 : SP_2017_RD1600_191_20_20170320_00017.jpg



View of the erosion in the berm area on the waterward side looking upstream. Fall 2015.

| | | | | | |
|----------|-------------|--------------|-----|------------|------------------|
| LM Start | 7.10 | Rating ** | A/W | Issue No. | 20 (cont) |
| LM End | 7.10 | Issue Type + | Ma | Location * | WS |

Photo 3 of 5 : SP_2017_RD1600_191_20_20170320_00018.jpg



The erosion is eroding away at the berm area.

| | | | | | |
|----------|-------------|--------------|-----|------------|------------------|
| LM Start | 7.10 | Rating ** | A/W | Issue No. | 20 (cont) |
| LM End | 7.10 | Issue Type + | Ma | Location * | WS |

Photo 4 of 5 : SP_2017_RD1600_191_20_20170320_00019.jpg



Looking at the erosion site on the berm. Fall 2015.

| | | | | | |
|---|--|--|--|--|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|---|--|--|--|--|--|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | | |
|--|-------------------------|--------------|-----|------------------------|-----------|---------------|
| LM Start | 7.10 | Rating ** | A/W | Issue No. | 20 (cont) | |
| LM End | 7.10 | Issue Type + | Ma | Location * | WS | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | Erosion / Bank Caving | | | 38.766691 ° | | 38.766691 ° |
| | | | | -121.596300 ° | | -121.596300 ° |
| DWR ID | DWR_RD1600_01_s_2012_20 | | | | | |
| Comment Code | | | | | | |
| E1 : Note and monitor erosion site. | | | | | | |
| Inspector Comment | | | | | | |
| Erosion present at the berm, and it hasn't got into the levee prism yet. | | | | | | |

Photo 5 of 5 : SP_2017_RD1600_191_20_20170320_00020.jpg



Updated view of erosion site. Fall 2016.

| | | | | | |
|-------------------------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 7.21 | Rating ** | M | Issue No. | 61 |
| LM End | 7.21 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 38.768094 ° | 38.768094 ° |
| | | | | -121.597075 ° | -121.597075 ° |
| DWR ID | DWR_RD1600_01_f_2015_61 | | | | |
| Comment Code | | | | | |
| E1 : Note and monitor erosion site. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2017_RD1600_191_61_20170320_00066.jpg



View of the erosion on the landward side of the levee looking downstream. Fall 2015.

| | | | | | |
|-------------------------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 7.23 | Rating ** | M | Issue No. | 21 |
| LM End | 7.23 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 38.768409 ° | 38.768409 ° |
| | | | | -121.597213 ° | -121.597213 ° |
| DWR ID | DWR_RD1600_01_s_2012_21 | | | | |
| Comment Code | | | | | |
| E1 : Note and monitor erosion site. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 3 : SP_2017_RD1600_191_21_20170320_00021.jpg



The erosion is eroding away the berm area.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | | |
|-------------------------------------|-------------------------|--------------|----|------------------------|-----------|---------------|
| LM Start | 7.23 | Rating ** | M | Issue No. | 21 (cont) | |
| LM End | 7.23 | Issue Type + | Ma | Location * | WS | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | Erosion / Bank Caving | | | 38.768409 ° | | 38.768409 ° |
| | | | | -121.597213 ° | | -121.597213 ° |
| DWR ID | DWR_RD1600_01_s_2012_21 | | | | | |
| Comment Code | | | | | | |
| E1 : Note and monitor erosion site. | | | | | | |
| Inspector Comment | | | | | | |
| | | | | | | |

Photo 2 of 3 : SP_2017_RD1600_191_21_20170320_00022.jpg



The bank is eroding away and has become very steep.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 7.23 | Rating ** | M | Issue No. | 21 (cont) |
| LM End | 7.23 | Issue Type + | Ma | Location * | WS |

Photo 3 of 3 : SP_2017_RD1600_191_21_20170320_00023.jpg



View of the erosion along the waterward berm of the levee. Fall 2015.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 7.38 | Rating ** | M | Issue No. | 81 |
| LM End | 7.38 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.770338 ° | 38.770338 ° |
| | | | | -121.598542 ° | -121.598542 ° |
| DWR ID | DWR_RD1600_01_s_2017_81 | | | | |
| Comment Code | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|--|---|

Reclamation District No. 1600 Mull

Reclamation District No. 1600 Mull

view of levee crown looking upstream from pipe location.

4-foot diameter steel standpipe at LS toe, may be indicator of pipe location.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 8.09 | Rating ** | M | Issue No. | 82 |
| LM End | 8.20 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.778312 ° | 38.778957 ° |
| | | | | -121.606618 ° | -121.608445 ° |
| DWR ID | DWR_RD1600_01_s_2017_82 | | | | |
| Comment Code | | | | | |
| V1 : Control annual grass and weeds on the levee slopes and easements. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 8.10 | Rating ** | M | Issue No. | 60 |
| LM End | 8.26 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.778390 ° | 38.779128 ° |
| | | | | -121.606875 ° | -121.609582 ° |
| DWR ID | DWR_RD1600_01_f_2016_60 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2017_RD1600_191_60_20170320_00065.jpg



Vegetation on LS slope partially blocks visibility. Fall 2016.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 8.18 | Rating ** | M | Issue No. | 63 |
| LM End | 8.18 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 38.778922 ° | 38.778922 ° |
| | | | | -121.608075 ° | -121.608075 ° |
| DWR ID | DWR_RD1600_01_f_2015_63 | | | | |
| Comment Code | | | | | |
| T1 : Trim trees to at least five feet above ground level. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2017_RD1600_191_63_20170320_00067.jpg



Tree trimming on WS slope is needed. Fall 2016.

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|--|--|---|--|---|--|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 8.18 | Rating ** | M | Issue No. | 48 |
| LM End | 8.18 | Issue Type + | En | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.778963 ° | 38.778963 ° |
| | | | | -121.608106 ° | -121.608106 ° |
| DWR ID | DWR_RD1600_01_s_2016_48 | | | | |
| Comment Code | | | | | |
| EQ : Equipment | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2017_RD1600_191_48_20170320_00051.jpg



View of the beehives on the waterward side of the levee looking upstream. Spring 2016.

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 8.21 | Rating ** | M | Issue No. | 1200 |
| LM End | 8.21 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 38.778938 ° | 38.778938 ° |
| | | | | -121.608595 ° | -121.608595 ° |
| DWR ID | DWR_RD1600_01_s_2015_1200 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2017_RD1600_191_1200_20170320_00099.jpg



Rodent holes on waterside slope. Fall 2016.

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 8.52 | Rating ** | M | Issue No. | 62 |
| LM End | 9.39 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.780319 ° | 38.778744 ° |
| | | | | -121.614069 ° | -121.627137 ° |
| DWR ID | DWR_RD1600_01_f_2016_62 | | | | |
| Comment Code | | | | | |
| V1 : Control annual grass and weeds on the levee slopes and easements. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|---|--|--|--|--|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|---|--|--|--|--|--|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 9.04 | Rating ** | C | Issue No. | 64 |
| LM End | 9.57 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.782563 ° | 38.776643 ° |
| | | | | -121.623188 ° | -121.628748 ° |
| DWR ID | DWR_RD1600_01_f _ 2016_64 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 9.40 | Rating ** | M | Issue No. | 66 |
| LM End | 10.45 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.778649 ° | 38.765406 ° |
| | | | | -121.627172 ° | -121.635004 ° |
| DWR ID | DWR_RD1600_01_f _ 2016_66 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| Only about 10 ft of WS slope cleared. | | | | | |

Photo 1 of 1 : SP_2017_RD1600_191_66_20170320_00069.jpg



Vegetation on WS slope has been cleared only about 10 ft. from the crown. Fall 2016.

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 9.48 | Rating ** | M | Issue No. | 84 |
| LM End | 10.45 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.777513 ° | 38.765404 ° |
| | | | | -121.627746 ° | -121.634999 ° |
| DWR ID | DWR_RD1600_01_s_2017_84 | | | | |
| Comment Code | | | | | |
| V1 : Control annual grass and weeds on the levee slopes and easements. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|-----------------|----------------------|--------------------------|---|-----------------------------------|--|
| * Location | | ** Rating | | + Issue Type | |
| LS : Land Side | N/A : Not Applicable | A : Acceptable | N : Not Inspected/Rated | Ma : Maintenance Deficiency | |
| WS : Water Side | | M : Minimally Acceptable | C : Corrected | Ob : Design & System Obsolescence | |
| CR : Crown | | U : Unacceptable | A/W : Acceptable but Monitor & Maintain | En : Enforcement | |

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 9.53 | Rating ** | U | Issue No. | 83 |
| LM End | 9.93 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.777010 ° | 38.772388 ° |
| | | | | -121.628252 ° | -121.631607 ° |
| DWR ID | DWR_RD1600_01_s_2017_83 | | | | |
| Comment Code | | | | | |
| V1 : Control annual grass and weeds on the levee slopes and easements. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2017_RD1600_191_83_20170413_00131.jpg



Tall grass on landside levee slope, blocking visibility. Spring 2017.

| | | | | | |
|---|---------------------------|--------------|-----|------------------------|---------------|
| LM Start | 9.59 | Rating ** | A/W | Issue No. | 1201 |
| LM End | 9.59 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.776493 ° | 38.776493 ° |
| | | | | -121.629160 ° | -121.629160 ° |
| DWR ID | DWR_RD1600_01_s_2015_1201 | | | | |
| Comment Code | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2017_RD1600_191_1201_20170320_00100.jpg



Elderberry tree on WS slope. Fall 2016.

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 9.86 | Rating ** | C | Issue No. | 68 |
| LM End | 9.90 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.773389 ° | 38.772705 ° |
| | | | | -121.631723 ° | -121.631586 ° |
| DWR ID | DWR_RD1600_01_f_2016_68 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|-----------------|----------------------|--------------------------|---|-----------------------------------|--|
| * Location | | ** Rating | | + Issue Type | |
| LS : Land Side | N/A : Not Applicable | A : Acceptable | N : Not Inspected/Rated | Ma : Maintenance Deficiency | |
| WS : Water Side | | M : Minimally Acceptable | C : Corrected | Ob : Design & System Obsolescence | |
| CR : Crown | | U : Unacceptable | A/W : Acceptable but Monitor & Maintain | En : Enforcement | |

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 9.93 | Rating ** | M | Issue No. | 85 |
| LM End | 10.38 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.772387 ° | 38.766298 ° |
| | | | | -121.631608 ° | -121.634364 ° |
| DWR ID | DWR_RD1600_01_s _ 2017_85 | | | | |
| Comment Code | | | | | |
| V1 : Control annual grass and weeds on the levee slopes and easements. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|-----------------------------------|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 10.37 | Rating ** | M | Issue No. | 86 |
| LM End | 10.37 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.766510 ° | 38.766510 ° |
| | | | | -121.634168 ° | -121.634168 ° |
| DWR ID | DWR_RD1600_01_s _ 2017_86 | | | | |
| Comment Code | | | | | |
| TR : Tree or limb | | | | | |
| Inspector Comment | | | | | |
| Prunings on landside levee slope. | | | | | |

No Photos

| | | | | | |
|---|-----------------------------|--------------|----|------------------------|---------------|
| LM Start | 10.38 | Rating ** | M | Issue No. | 1202 |
| LM End | 10.45 | Issue Type + | En | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.766363 ° | 38.765402 ° |
| | | | | -121.634317 ° | -121.635005 ° |
| DWR ID | DWR_RD1600_01_s _ 2015_1202 | | | | |
| Comment Code | | | | | |
| DE : Debris | | | | | |
| Inspector Comment | | | | | |
| Concrete pipes and blocks on levee crown. | | | | | |

Photo 1 of 1 : SP_2017_RD1600_191_1202_20170320_00101.jpg



View of debris on the waterward side of the levee looking upstream.
Spring 2015.

| | | | | | |
|-----------------|----------------------|--------------------------|---|-----------------------------------|--|
| * Location | | ** Rating | | + Issue Type | |
| LS : Land Side | N/A : Not Applicable | A : Acceptable | N : Not Inspected/Rated | Ma : Maintenance Deficiency | |
| WS : Water Side | | M : Minimally Acceptable | C : Corrected | Ob : Design & System Obsolescence | |
| CR : Crown | | U : Unacceptable | A/W : Acceptable but Monitor & Maintain | En : Enforcement | |

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Right | 10.46 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 10.38 | Rating ** | M | Issue No. | 69 |
| LM End | 10.38 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 38.766293 ° | 38.766293 ° |
| | | | | -121.634349 ° | -121.634349 ° |
| DWR ID | DWR_RD1600_01_f_2015_69 | | | | |
| Comment Code | | | | | |
| T1 : Trim trees to at least five feet above ground level. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 10.41 | Rating ** | M | Issue No. | 74 |
| LM End | 10.42 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 38.765905 ° | 38.765774 ° |
| | | | | -121.634580 ° | -121.634661 ° |
| DWR ID | DWR_RD1600_01_f_2016_74 | | | | |
| Comment Code | | | | | |
| T3 : Trim and thin trees to allow visibility of the ground and room to flood fight. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2017_RD1600_191_74_20170320_00079.jpg



Tree thinning on LS slope is needed. Fall 2016.

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|--|---|

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2017 Levee Inspection Results

Reclamation District No. 1600 Mull

| Waterway | | | Bank | Unit Miles |
|--|-------------------------|---------------------------|--------------------------------|---------------------------------|
| Unit No. 02 Yolo Bypass | | | Left | 4.23 |
| | Spring (March - May) | Summer (June - August) | (September - November) Fall | Winter (December - February) |
| Unit Maintenance Rating (Fall Only) | | | | |
| Date of Inspection | 4/11/2017 - 4/11/2017 | | | |
| DWR Inspector | Zach Jojola | | | |
| Accompanied By | | | | |

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------|------|------------|--------------------------|-------------|
| Unit No. 02 Yolo Bypass | Left | 4.23 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.00 | Rating ** | M | Issue No. | 16 |
| LM End | 4.20 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.736199 ° | 38.677016 ° |
| | | | | -121.633669 ° | -121.643295 ° |
| DWR ID | DWR_RD1600_02_s_2017_16 | | | | |
| Comment Code | | | | | |
| V1 : Control annual grass and weeds on the levee slopes and easements. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|--|------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.37 | Rating ** | M | Issue No. | 4 |
| LM End | 0.37 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 38.730872 ° | 38.730872 ° |
| | | | | -121.633504 ° | -121.633504 ° |
| DWR ID | DWR_RD1600_02_f_2016_4 | | | | |
| Comment Code | | | | | |
| E2 : Schedule repair of erosion site prior to the next inspection. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2017_RD1600_192_4_20170320_00003.jpg



Landside levee slope erosion at RD1600 pumping plant. Fall 2016.

| | | | | | |
|--|------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.39 | Rating ** | M | Issue No. | 5 |
| LM End | 0.91 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.730547 ° | 38.723081 ° |
| | | | | -121.633490 ° | -121.633449 ° |
| DWR ID | DWR_RD1600_02_f_2016_5 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2017_RD1600_192_5_20170320_00004.jpg



View of vegetation on waterside slope. Fall 2016.

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|--|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------|------|------------|--------------------------|-------------|
| Unit No. 02 Yolo Bypass | Left | 4.23 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|--|--------------------------|--------------|-----|------------------------|---------------|
| LM Start | 0.41 | Rating ** | A/W | Issue No. | 7 |
| LM End | 1.01 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.730316 ° | 38.721685 ° |
| | | | | -121.633472 ° | -121.633577 ° |
| DWR ID | DWR_RD1600_02_f _ 2016_7 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2017_RD1600_192_7_20170320_00007.jpg



View of vegetation on landside slope. Fall 2016.

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.90 | Rating ** | M | Issue No. | 17 |
| LM End | 4.20 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.723186 ° | 38.677033 ° |
| | | | | -121.633446 ° | -121.643328 ° |
| DWR ID | DWR_RD1600_02_s_2017_17 | | | | |
| Comment Code | | | | | |
| V1 : Control annual grass and weeds on the levee slopes and easements. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.92 | Rating ** | M | Issue No. | 23 |
| LM End | 1.40 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 38.722948 ° | 38.716108 ° |
| | | | | -121.633477 ° | -121.634930 ° |
| DWR ID | DWR_RD1600_02_s_2017_23 | | | | |
| Comment Code | | | | | |
| E2 : Schedule repair of erosion site prior to the next inspection. | | | | | |
| Inspector Comment | | | | | |
| Long section of wave wash damage on waterside levee slope. | | | | | |

Photo 1 of 1 : SP_2017_RD1600_192_23_20170413_00032.jpg



View of wave wash damage on waterside levee slope. Spring 2017.

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|--|--|---|--|---|--|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------|------|------------|--------------------------|-------------|
| Unit No. 02 Yolo Bypass | Left | 4.23 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|--------------------------------|------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.57 | Rating ** | M | Issue No. | 8 |
| LM End | 1.57 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 38.713733 ° | 38.713733 ° |
| | | | | -121.635872 ° | -121.635872 ° |
| DWR ID | DWR_RD1600_02_f_2015_8 | | | | |
| Comment Code | | | | | |
| S1 : Repair slope instability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2017_RD1600_192_8_20170320_00008.jpg



View of the slope stability on the waterward side of the levee looking downstream. Fall 2015.

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.57 | Rating ** | M | Issue No. | 22 |
| LM End | 1.57 | Issue Type + | En | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.713672 ° | 38.713672 ° |
| | | | | -121.635913 ° | -121.635913 ° |
| DWR ID | DWR_RD1600_02_s_2017_22 | | | | |
| Comment Code | | | | | |
| DE : Debris | | | | | |
| Inspector Comment | | | | | |
| Refrigerator on waterside levee slope. | | | | | |

Photo 1 of 1 : SP_2017_RD1600_192_22_20170413_00031.jpg



Refrigerator on waterside levee slope. Spring 2017.

| | | | | | |
|--|------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.65 | Rating ** | M | Issue No. | 9 |
| LM End | 2.89 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.712569 ° | 38.695566 ° |
| | | | | -121.636348 ° | -121.643661 ° |
| DWR ID | DWR_RD1600_02_f_2016_9 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|-----------------|----------------------|--------------------------|---|-----------------------------------|--|
| * Location | | ** Rating | | + Issue Type | |
| LS : Land Side | N/A : Not Applicable | A : Acceptable | N : Not Inspected/Rated | Ma : Maintenance Deficiency | |
| WS : Water Side | | M : Minimally Acceptable | C : Corrected | Ob : Design & System Obsolescence | |
| CR : Crown | | U : Unacceptable | A/W : Acceptable but Monitor & Maintain | En : Enforcement | |

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------|------|------------|--------------------------|-------------|
| Unit No. 02 Yolo Bypass | Left | 4.23 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.79 | Rating ** | M | Issue No. | 14 |
| LM End | 2.05 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 38.710763 ° | 38.707116 ° |
| | | | | -121.637147 ° | -121.638722 ° |
| DWR ID | DWR_RD1600_02_s_2012_14 | | | | |
| Comment Code | | | | | |
| E2 : Schedule repair of erosion site prior to the next inspection. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 4 : SP_2017_RD1600_192_14_20170320_00012.jpg



A closer view of the wave wash damage along the bypass.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 1.79 | Rating ** | M | Issue No. | 14 (cont) |
| LM End | 2.05 | Issue Type + | Ma | Location * | WS |

Photo 2 of 4 : SP_2017_RD1600_192_14_20170320_00013.jpg



Wave wash damage along the slope the cut is 1'-2'.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 1.79 | Rating ** | M | Issue No. | 14 (cont) |
| LM End | 2.05 | Issue Type + | Ma | Location * | WS |

Photo 3 of 4 : SP_2017_RD1600_192_14_20170320_00014.jpg



View of the erosion on the waterward side of the levee looking downstream. Fall 2015.

| | | | | | |
|---|--|--|--|--|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|---|--|--|--|--|--|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------|------|------------|--------------------------|-------------|
| Unit No. 02 Yolo Bypass | Left | 4.23 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|-----|
| LM Start | 1.79 | Rating ** | M | Issue No. | 14 (cont) | |
| LM End | 2.05 | Issue Type + | Ma | Location * | WS | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | Erosion / Bank Caving | | | 38.710763 ° | 38.707116 ° | |
| | | | | -121.637147 ° | -121.638722 ° | |
| DWR ID | DWR_RD1600_02_s_2012_14 | | | | | |
| Comment Code | | | | | | |
| E2 : Schedule repair of erosion site prior to the next inspection. | | | | | | |
| Inspector Comment | | | | | | |
| | | | | | | |

Photo 4 of 4 : SP_2017_RD1600_192_14_20170320_00015.jpg



Updated view of erosion site on WS slope. Fall 2016.

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.05 | Rating ** | M | Issue No. | 21 |
| LM End | 2.05 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.707130 ° | 38.707130 ° |
| | | | | -121.638712 ° | -121.638712 ° |
| DWR ID | DWR_RD1600_02_s_2017_21 | | | | |
| Comment Code | | | | | |
| DE : Debris | | | | | |
| Inspector Comment | | | | | |
| Trash and large log on watersid levee slope. | | | | | |

Photo 1 of 1 : SP_2017_RD1600_192_21_20170413_00030.jpg



Trash on waterside levee slope. Spring 2017.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.16 | Rating ** | M | Issue No. | 15 |
| LM End | 2.27 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 38.705614 ° | 38.704052 ° |
| | | | | -121.639357 ° | -121.640016 ° |
| DWR ID | DWR_RD1600_02_s_2012_15 | | | | |
| Comment Code | | | | | |
| E1 : Note and monitor erosion site. | | | | | |
| Inspector Comment | | | | | |
| This is wave wash damage caused by last high water. | | | | | |

Photo 1 of 3 : SP_2017_RD1600_192_15_20170320_00016.jpg



Looking upstream a deeper cut of 2'-3' damage.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------|------|------------|--------------------------|-------------|
| Unit No. 02 Yolo Bypass | Left | 4.23 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | | |
|---|-------------------------|--------------|----|------------------------|-----------|---------------|
| LM Start | 2.16 | Rating ** | M | Issue No. | 15 (cont) | |
| LM End | 2.27 | Issue Type + | Ma | Location * | WS | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | Erosion / Bank Caving | | | 38.705614 ° | | 38.704052 ° |
| | | | | -121.639357 ° | | -121.640016 ° |
| DWR ID | DWR_RD1600_02_s_2012_15 | | | | | |
| Comment Code | | | | | | |
| E1 : Note and monitor erosion site. | | | | | | |
| Inspector Comment | | | | | | |
| This is wave wash damage caused by last high water. | | | | | | |

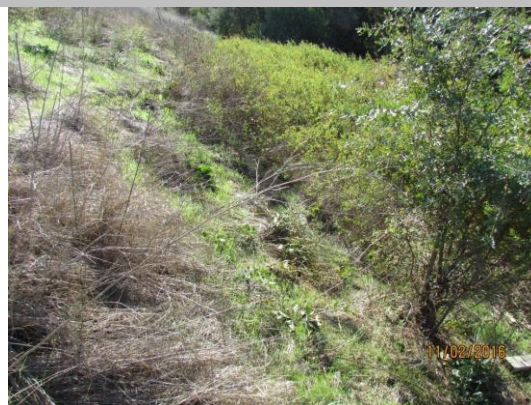
Photo 2 of 3 : SP_2017_RD1600_192_15_20170320_00017.jpg



This is wave wash damage along the toe of the levee looking downstream.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 2.16 | Rating ** | M | Issue No. | 15 (cont) |
| LM End | 2.27 | Issue Type + | Ma | Location * | WS |

Photo 3 of 3 : SP_2017_RD1600_192_15_20170320_00018.jpg



Updated view of wave wash damage on WS slope. Fall 2016.

| | | | | | |
|-------------------|------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.40 | Rating ** | M | Issue No. | 2 |
| LM End | 2.40 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.702366 ° | 38.702366 ° |
| | | | | -121.640732 ° | -121.640732 ° |
| DWR ID | DWR_RD1600_02_s_2016_2 | | | | |
| Comment Code | | | | | |
| TR : Tree or limb | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 2 : SP_2017_RD1600_192_2_20170320_00001.jpg



A tree has fallen on the landward side of the levee. Spring 2016.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------|------|------------|--------------------------|-------------|
| Unit No. 02 Yolo Bypass | Left | 4.23 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | | |
|-------------------|------------------------|--------------|----|------------------------|---------------|--|
| LM Start | 2.40 | Rating ** | M | Issue No. | 2 (cont) | |
| LM End | 2.40 | Issue Type + | Ma | Location * | LS | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| | | | | Start | End | |
| Item | Encroachments | | | 38.702366 ° | 38.702366 ° | |
| | | | | -121.640732 ° | -121.640732 ° | |
| DWR ID | DWR_RD1600_02_s_2016_2 | | | | | |
| Comment Code | | | | | | |
| TR : Tree or limb | | | | | | |
| Inspector Comment | | | | | | |
| | | | | | | |

Photo 2 of 2 : SP_2017_RD1600_192_2_20170320_00002.jpg



View of the fallen tree on the landward side of the levee looking downstream. Spring 2016.

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.53 | Rating ** | M | Issue No. | 20 |
| LM End | 3.23 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.700581 ° | 38.690801 ° |
| | | | | -121.641533 ° | -121.645226 ° |
| DWR ID | DWR_RD1600_02_s_2017_20 | | | | |
| Comment Code | | | | | |
| TR : Tree or limb | | | | | |
| Inspector Comment | | | | | |
| Mutiple pruning piles on landside levee slope. | | | | | |

Photo 1 of 1 : SP_2017_RD1600_192_20_20170413_00029.jpg



Pruning piles on landside levee slope. Spring 2017.

| | | | | | |
|---|------------------------|--------------|-----|------------------------|---------------|
| LM Start | 2.77 | Rating ** | A/W | Issue No. | 3 |
| LM End | 2.77 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.697266 ° | 38.697266 ° |
| | | | | -121.642952 ° | -121.642952 ° |
| DWR ID | DWR_RD1600_02_s_2016_3 | | | | |
| Comment Code | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|-----------------|----------------------|--------------------------|---|-----------------------------------|--|
| * Location | | ** Rating | | + Issue Type | |
| LS : Land Side | N/A : Not Applicable | A : Acceptable | N : Not Inspected/Rated | Ma : Maintenance Deficiency | |
| WS : Water Side | | M : Minimally Acceptable | C : Corrected | Ob : Design & System Obsolescence | |
| CR : Crown | | U : Unacceptable | A/W : Acceptable but Monitor & Maintain | En : Enforcement | |

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------|------|------------|--------------------------|-------------|
| Unit No. 02 Yolo Bypass | Left | 4.23 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.12 | Rating ** | M | Issue No. | 10 |
| LM End | 3.84 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.692390 ° | 38.681950 ° |
| | | | | -121.644950 ° | -121.644296 ° |
| DWR ID | DWR_RD1600_02_f _ 2016_10 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| Only about 20 ft of LS slope cleared. | | | | | |

Photo 1 of 1 : SP_2017_RD1600_192_10_20170320_00009.jpg



View of vegetation on landside slope. Only about 20 ft. from the crown has been cleared. Fall 2016.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.27 | Rating ** | M | Issue No. | 19 |
| LM End | 3.43 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.690182 ° | 38.687991 ° |
| | | | | -121.645219 ° | -121.644983 ° |
| DWR ID | DWR_RD1600_02_s_2017_19 | | | | |
| Comment Code | | | | | |
| PR : Prunings | | | | | |
| Inspector Comment | | | | | |
| Multiple pruning piles on landside levee slope. | | | | | |

Photo 1 of 1 : SP_2017_RD1600_192_19_20170413_00028.jpg



Pruning piles on landside levee slope. Spring 2017.

| | | | | | |
|---|--------------------------|--------------|-----|------------------------|---------------|
| LM Start | 3.41 | Rating ** | A/W | Issue No. | 300 |
| LM End | 3.41 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.688243 ° | 38.688243 ° |
| | | | | -121.645010 ° | -121.645010 ° |
| DWR ID | DWR_RD1600_02_s_2015_300 | | | | |
| Comment Code | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|-----------------|----------------------|--------------------------|---|-----------------------------------|--|
| * Location | | ** Rating | | + Issue Type | |
| LS : Land Side | N/A : Not Applicable | A : Acceptable | N : Not Inspected/Rated | Ma : Maintenance Deficiency | |
| WS : Water Side | | M : Minimally Acceptable | C : Corrected | Ob : Design & System Obsolescence | |
| CR : Crown | | U : Unacceptable | A/W : Acceptable but Monitor & Maintain | En : Enforcement | |

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------|------|------------|--------------------------|-------------|
| Unit No. 02 Yolo Bypass | Left | 4.23 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|---|--------------------------|--------------|-----|------------------------|---------------|
| LM Start | 3.53 | Rating ** | A/W | Issue No. | 299 |
| LM End | 3.53 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.686436 ° | 38.686436 ° |
| | | | | -121.644799 ° | -121.644799 ° |
| DWR ID | DWR_RD1600_02_s_2015_299 | | | | |
| Comment Code | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : SP_2017_RD1600_192_299_20170320_00019.jpg



Elderberry tree on landside slope. Fall 2016.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.59 | Rating ** | M | Issue No. | 12 |
| LM End | 3.64 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.685670 ° | 38.684905 ° |
| | | | | -121.644700 ° | -121.644613 ° |
| DWR ID | DWR_RD1600_02_s_2017_12 | | | | |
| Comment Code | | | | | |
| PR : Prunings | | | | | |
| Inspector Comment | | | | | |
| Multiple pruning piles on landside levee slope. | | | | | |

Photo 1 of 1 : SP_2017_RD1600_192_12_20170413_00027.jpg



Pruning piles on landside levee slope. Spring 2017.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------|------|------------|--------------------------|-------------|
| Unit No. 02 Yolo Bypass | Left | 4.23 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start | 3.71 | Rating ** | U | Issue No. | 301 |
| LM End | 3.71 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.683971 ° | 38.683971 ° |
| | | | | -121.644522 ° | -121.644522 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:50099 DS_ID:21501 EP_NO: 10944 Repair Type: Urgent Crossing Status: Indicator Found UCIP Comments: 08/16/2016 - unable to locate pipe. Need to install gas line markers on LS and WS of levee crown to denote location. (T. Hatch/UCIP)06/21/2013 - Need to install gasline markers on levee. (W. Wylie/UCIP) FIELD_STRUCT_DESC: 8.625-inch steel gas line through the levee, 2 feet below the crown (Permit No. 10944, 1976 - Shell Oil Company). [Additional Reference(s): DWR Levee Logs, 1988]. FS Date: 8/15/2016 | | | | | |

Photo 1 of 2 : UCIP_SP_2017_50099_27478.jpg



PG&E marker flag on Crown.

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 3.71 | Rating ** | U | Issue No. | 301 (cont) |
| LM End | 3.71 | Issue Type + | En | Location * | LS |

Photo 2 of 2 : UCIP_SP_2017_50099_27477.jpg



Carsonite gasline marker visible approximately 1,000-feet east of levee crown.

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------|------|------------|--------------------------|-------------|
| Unit No. 02 Yolo Bypass | Left | 4.23 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|-----------------------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.90 | Rating ** | M | Issue No. | 11 |
| LM End | 3.90 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.681194 ° | 38.681194 ° |
| | | | | -121.644201 ° | -121.644201 ° |
| DWR ID | DWR_RD1600_02_s_2017_11 | | | | |
| Comment Code | | | | | |
| PR : Prunings | | | | | |
| Inspector Comment | | | | | |
| Prunings on landside levee slope. | | | | | |

Photo 1 of 1 : SP_2017_RD1600_192_11_20170413_00026.jpg



Prunings on landside levee slope. Spring 2017.

| | | | | | |
|---|-----------------------------|--------------|-----|------------------------|---------------|
| LM Start | 4.17 | Rating ** | A/W | Issue No. | 302 |
| LM End | 4.17 | Issue Type + | Ma | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP LMA Responsibility | | | 38.677286 ° | 38.677286 ° |
| | | | | -121.643683 ° | -121.643683 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:15303 DS_ID:21502 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 6x6-foot concrete box culvert through the levee 26.0 feet below the crown. Slide gate on the waterward slope in a 9'X10' concrete box. Culvert passes under the bypass canal, the railroad, and county road 22 and terminates in canal on southwest side of road 22 bridge. Originally included in the 1955 O&M manual. FS Date: 6/21/2013 | | | | | |

Photo 1 of 3 : UCIP_SP_2017_15303_25158.jpg



Concrete intake structure on LS.

| | | |
|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------|------|------------|--------------------------|-------------|
| Unit No. 02 Yolo Bypass | Left | 4.23 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | |
|---|-----------------------------|--------------|-----|------------------------|---------------|
| LM Start | 4.17 | Rating ** | A/W | Issue No. | 302 (cont) |
| LM End | 4.17 | Issue Type + | Ma | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP LMA Responsibility | | | 38.677286 ° | 38.677286 ° |
| | | | | -121.643683 ° | -121.643683 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:15303 DS_ID:21502 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 6x6-foot concrete box culvert through the levee 26.0 feet below the crown. Slide gate on the waterward slope in a 9'X10' concrete box. Culvert passes under the bypass canal, the railroad, and county road 22 and terminates in canal on southwest side of road 22 bridge. Originally included in the 1955 O&M manual. FS Date: 6/21/2013 | | | | | |

Photo 2 of 3 : UCIP_SP_2017_15303_25157.jpg



Concrete intake structure on LS.

| | | | | | |
|----------|-------------|--------------|-----|------------|-------------------|
| LM Start | 4.17 | Rating ** | A/W | Issue No. | 302 (cont) |
| LM End | 4.17 | Issue Type + | Ma | Location * | LS |

Photo 3 of 3 : UCIP_SP_2017_15303_25156.jpg



Slide gate in 9'X10' concrete box on WS slope.

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|--|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 1600 Mull

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------|------|------------|--------------------------|-------------|
| Unit No. 02 Yolo Bypass | Left | 4.23 | 04/11/2017 04/11/2017 | Zach Jojola |

| | | | | | | |
|---|-------------------------|--------------|----|------------------------|----|---------------|
| LM Start | 4.18 | Rating ** | M | Issue No. | 18 | |
| LM End | 4.18 | Issue Type + | Ma | Location * | LS | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | Slope Stability | | | 38.677144 ° | | 38.677144 ° |
| | | | | -121.643505 ° | | -121.643505 ° |
| DWR ID | DWR_RD1600_02_s_2017_18 | | | | | |
| Comment Code | | | | | | |
| S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. | | | | | | |
| Inspector Comment | | | | | | |
| Vehicle tracks on landside levee slope. | | | | | | |

Photo 1 of 1 : SP_2017_RD1600_192_18_20170413_00025.jpg



Vehicle tracks on landside levee slope. Spring 2017.

| | | | | | |
|-------------------|------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.19 | Rating ** | M | Issue No. | 6 |
| LM End | 4.19 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.677121 ° | 38.677121 ° |
| | | | | -121.643466 ° | -121.643466 ° |
| DWR ID | DWR_RD1600_02_s_2016_6 | | | | |
| Comment Code | | | | | |
| PR : Prunings | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 2 : SP_2017_RD1600_192_6_20170320_00005.jpg



View of the trees on the landward side of the levee looking downstream. Spring 2016.

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|----------|-------------|--------------|----|------------|-----------------|
| LM Start | 4.19 | Rating ** | M | Issue No. | 6 (cont) |
| LM End | 4.19 | Issue Type + | Ma | Location * | LS |

Photo 2 of 2 : SP_2017_RD1600_192_6_20170320_00006.jpg



View of debris on LS slope. Fall 2016.

| | | | | | | | |
|---|--|---|--|---|--|--|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|---|--|---|--|---|--|--|--|